



**SAMSUNG**

# **DLP TV**

**SP46L6HV**

**SP50L6HV**

**SP56K3HV**

**SP61L6HV**

**SP67L6HV**

## **Owner's Instructions**

Before operating the unit,  
please read this manual thoroughly,  
and retain it for future reference.

**Picture In Picture (PIP)**

**My Colour Control**



**SRS TruSurroundXT**



**Digital Natural Image engine**

This device is a Class B digital apparatus.

Register your product at [www.samsung.com/global/register](http://www.samsung.com/global/register)



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## Symbols



Press

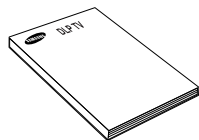


Important

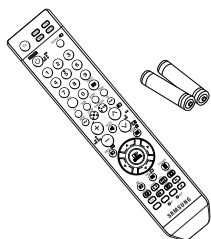


Note

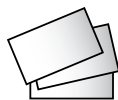
## Checking Parts



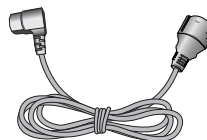
Owner's Instructions



Remote Control/  
AAA Batteries

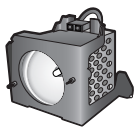


Warranty Card/  
Safety Guide Manual  
(Not available in  
all locations)



Power Cord

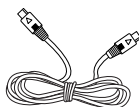
### ***Sold Separately***



Replacement Lamp

For purchasing a replacement lamp, ask at a nearby service center.

- Use authorized lamps only. The company cannot guarantee the quality of the product if an unauthorized lamp is used.



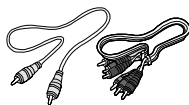
S-VIDEO Cable



HDMI Cable



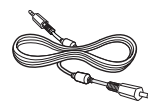
Antenna Cable



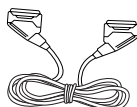
Component Cables  
(RCA)



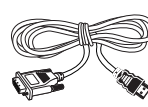
PC Cable



PC Audio Cable



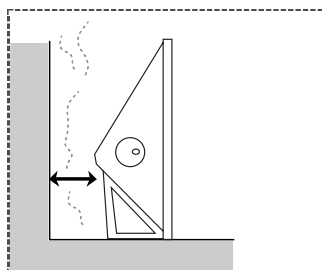
Scart Cable



HDMI/DVI Cable

➤ When installing the product, make sure to keep it away from the wall (more than 10cm) for ventilation purposes.

- Poor ventilation may cause an increase in the internal temperature of the product, resulting in a shortened component life and degraded performance.

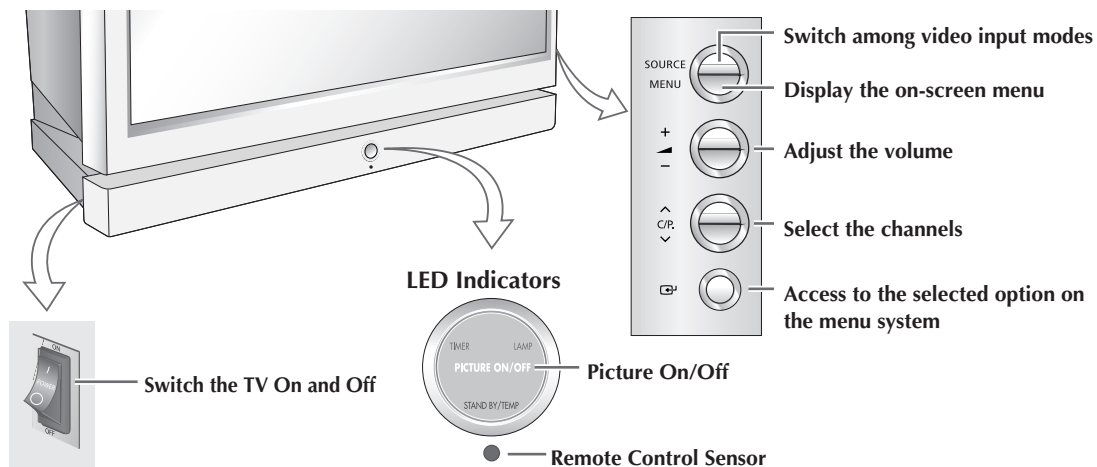


## Control Panel

- The actual configuration on your TV may be different, depending on your model.

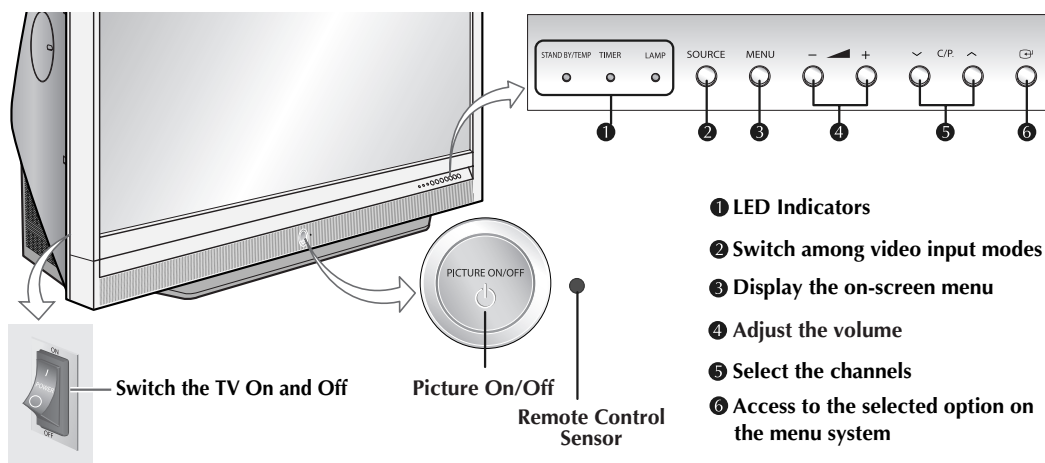
### Front of the TV

(SP46L6HV/SP50L6HV/SP61L6HV/SP67L6HV)



### Front of the TV

(SP56K3HV)



continued...

(●:On, ◐:Blinking, ○:Off)

TIMER	LAMP	STAND BY/TEMP	Indication
○	○	●	Standby mode.
●	○	○	A timer pilot lights when Timer Auto On or Off is selected.
○	○	○	Normal operation.
●	○	○	Normal operation (when Timer Auto On or Off is selected).
○	◐	○	Lamp is warming up. The normal picture comes on after 25 seconds.
●	◐	○	The normal picture comes on after 25 seconds. (when Timer Auto On or Off is selected)
○	◐	◐	Air vent cover in the rear of the TV is not properly installed.
○	○	◐	Inside temperature of the TV is over normal. Clean the air vent cover in the rear of the TV. Turn the TV back on after 1 hour.
◐	◐	◐	The lamp does not work, please contact an authorized Service Center for assistance.

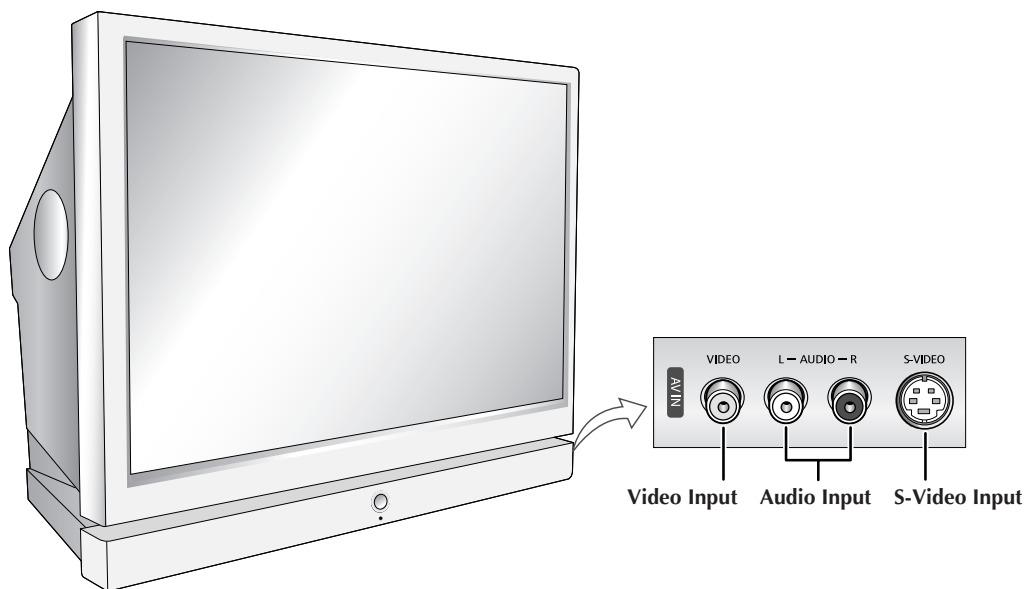
- 
- ◆ It takes about 30 seconds for the TV to warm up, so normal brightness may not appear immediately.
  - ◆ The TV has a fan to keep the inside lamp from overheating. You'll occasionally hear it working.
  - ◆ You can use the channel selection buttons to switch on the TV when it is in standby mode depending on the model.
  - ◆ When using the on-screen menu the volume adjustment and channel selection buttons have the same function as the ▲/▼/◀/▶ buttons on the remote control.
  - ◆ If the remote control no longer works or you have lost it, you can use controls on the panel of the TV.
  - ◆ Press the "I" side of the POWER switch to supply power to the TV. If the "I" side of the POWER switch is not pressed, the **POWER** button on the remote control and the Picture On/Off switch on the front panel of the TV will not work.

## Connection Panel

- The actual configuration on your TV may be different, depending on your model.

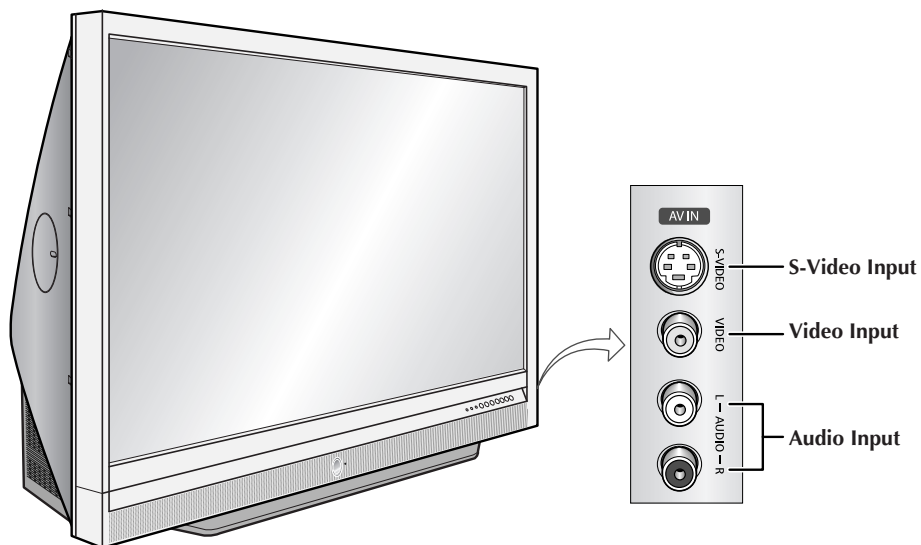
### Side of the TV

(SP46L6HV/SP50L6HV/SP61L6HV/SP67L6HV)



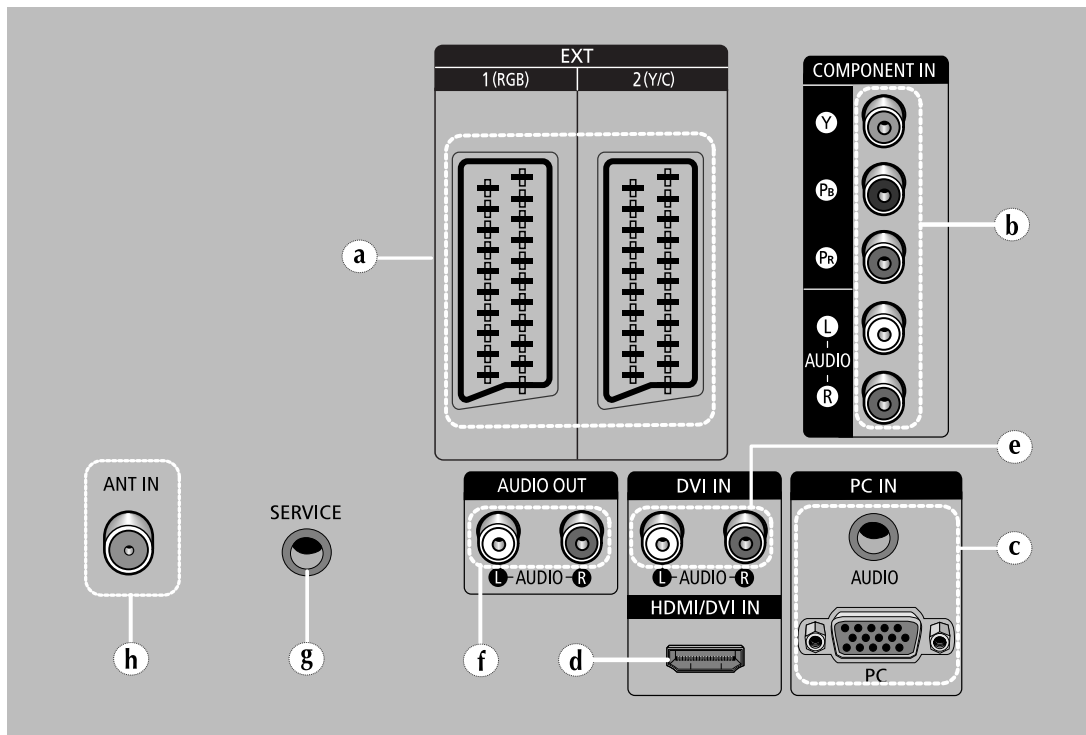
continued...

## Side of the TV (SP56K3HV)



continued...

## Rear of the TV



**a) EXT 1(RGB), 2(Y/C)**

Inputs or outputs for external devices, such as VCR, DVD, video game consoles or Cable/Satellite sources.

**b) COMPONENT IN**

Video (**Y/Pb/Pr**) and audio (**AUDIO L/R**) inputs for Component.

**c) PC IN (PC / AUDIO)**

Connect to the video and audio output jack on your PC.

**d) HDMI/DVI IN**

Connect to the HDMI jack of a device with HDMI output. These inputs can also be used as a DVI connection with separate analog audio inputs. An optional HDMI/DVI cable will be necessary to make this connection. When using the optional HDMI/DVI adapter, the DVI analog audio inputs on your TV allow you to receive left and right audio from your DVI device. (Not compatible with PC)

**e) DVI IN (AUDIO L/R)**

DVI audio inputs for external devices.

**f) AUDIO OUT**

Connect to the external audio amplifier.

**g) SERVICE**

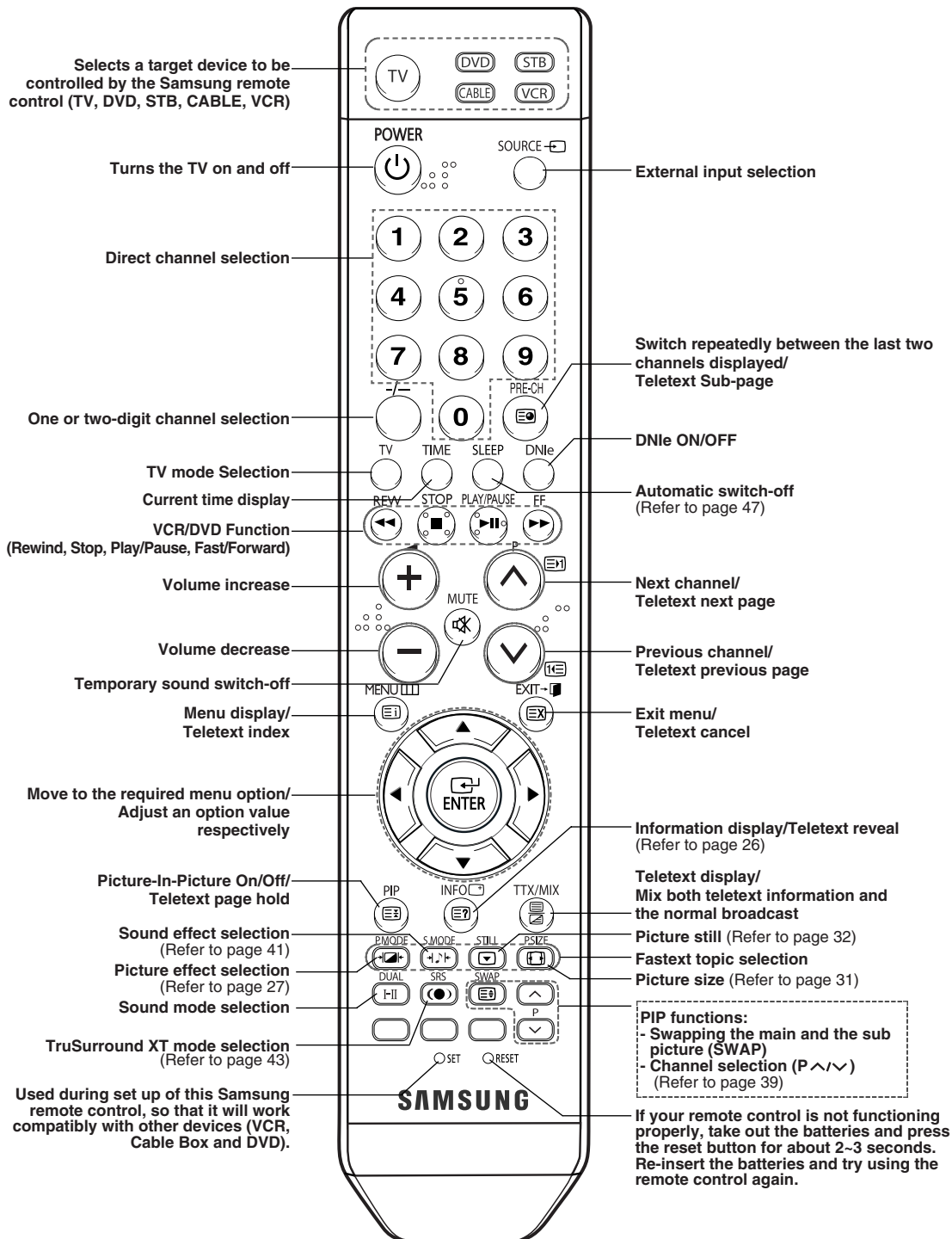
Service connection for qualified service engineer.

**h) ANT IN**

Coaxial connector for Aerial/Cable Network.

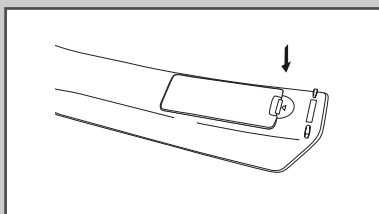
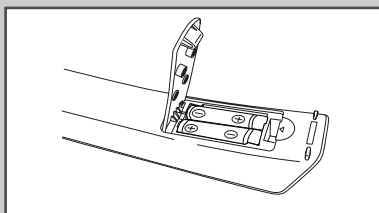
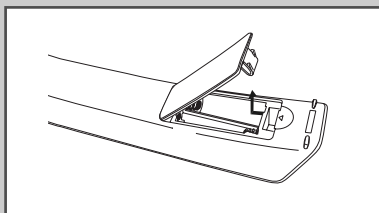
- For further details about connection, refer to pages 55~59.
- Whenever you connect an audio or video system to your television, ensure that all elements are switched off. Refer to the documentation supplied with your equipment for detailed connection instructions and associated safety precautions.

# Infrared Remote Control



- The performance of the remote control may be affected by bright light.
- This is a special remote control for the visually impaired, and has Braille points.

## Inserting the Batteries in the Remote Control



*You must insert or replace the batteries in the remote control when you:*

- ◆ *Purchase the television*
- ◆ *Find that the remote control is no longer operating correctly*

- 
- 1 Lift the cover at the back of the remote control upward as shown in the figure.
- 
- 2 Install two AAA size batteries.
    - Make sure to match the "+" and "-" ends of the batteries with the diagram inside the compartment.
- 
- 3 Close the cover as shown in the figure.
    - Remove the batteries and store them in a cool, dry place if you won't be using the remote control for a long time. The remote control can be used up to about 23 feet from the TV. (Assuming typical TV usage, the batteries last for about one year.)
-

## Connecting to an Aerial or Cable Television Network

*To view television channels correctly, a signal must be received by the set from one of the following sources:*

- ◆ *An outdoor aerial*
- ◆ *A cable television network*
- ◆ *A satellite network*
- ◆ *An indoor aerial*

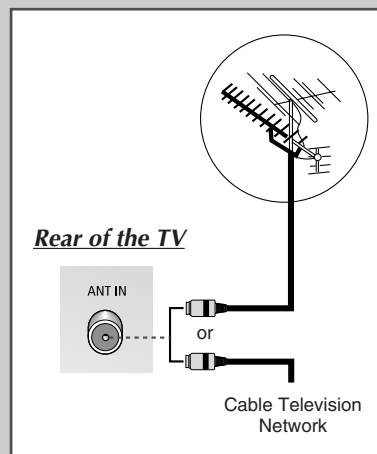
**1** In the first three cases, connect the aerial or network input cable to the **ANT IN** jack on the rear of the television.

**2** If you are using an indoor aerial, you may need to adjust its position when tuning your television until you obtain a picture that is both sharp and clear.

For further details, refer to:

- ◆ "Storing Channels Automatically" on page 18.
- ◆ "Storing Channels Manually" on page 19.

- When installing or re-installing your TV, be sure to use the supplied coaxial antenna cable. If you connect using a different coaxial cable, there is risk of noise or interference to the screen image. (You must not use another general purpose cable. Use the 3M/5M/7M cable supplied by Samsung.)



## Connecting a Satellite Receiver or Decoder

*In order to watch television programmes broadcast via a satellite network, you must connect a satellite receiver to the rear of TV. Also, in order to descramble a coded transmission signal, you must connect a decoder to the rear of TV.*

◆ **Using a SCART cable**

Connect the receiver (or decoder) SCART cable to one of the SCART connectors on the rear of the television.

◆ **Using a coaxial cable**

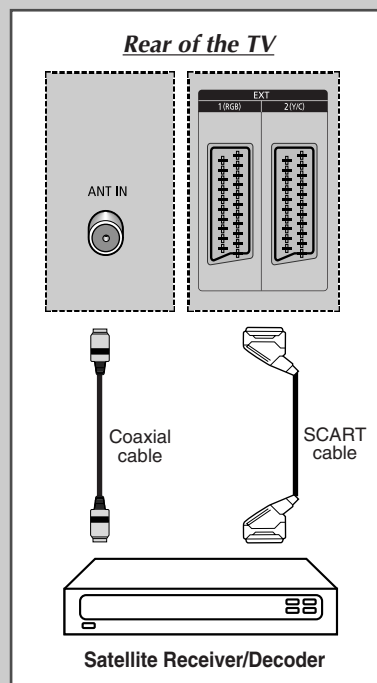
Connect a coaxial cable to the:

- Receiver (or Decoder) output socket.
- Television aerial input socket.

- If you wish to connect both a satellite receiver (or decoder) and a VCR, you should connect the:

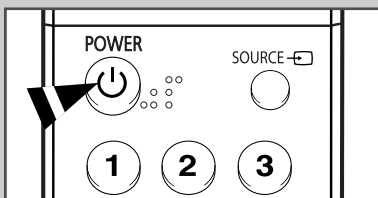
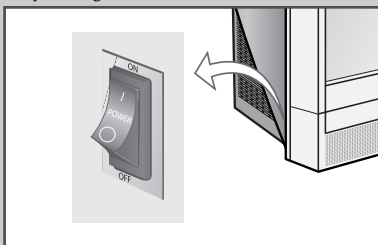
- ◆ Receiver (or Decoder) to the VCR
- ◆ VCR to the television

Otherwise, connect the receiver (or decoder) directly to the television.



## Switching Your Television On and Off

*Depending on the model*



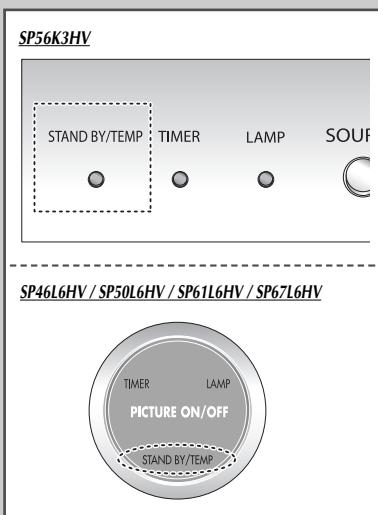
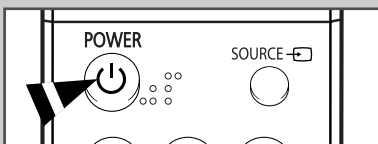
*Depending on the model*



*Plug the mains lead to the rear of your television.*

- 1 Plug the mains lead into an appropriate socket.  
➤ The main voltage is indicated on the rear of the television and the frequency is 50 or 60Hz.
- 2 Press the power switch on the side of the television toward "ON" (I).
- 3 Press the **POWER** (⏻) button on the remote control (or the "PICTURE ON/OFF" button on the front of the television).  
Result: The programme that you were watching last is re-selected automatically. However, if a SCART signal input is present, the SCART signal has priority.  
➤ If you have not yet stored any channels, No clear picture appears. Refer to "Storing Channels Automatically" on page 18 or "Storing Channels Manually" on page 19.
- 4 To switch your television off, press the power switch toward "OFF" (O).

## Placing Your Television in Standby Mode



*Your television can be placed in Standby mode, in order to reduce the power consumption.*

*The Standby mode can be useful when you wish to interrupt viewing temporarily (during a meal, for example).*











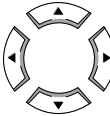


- 1 Press the **POWER** (⏻) button on the remote control to turn the screen off.  
Result: The **STAND BY/TEMP** indicator on the front of the television turns on.
  - 2 To turn the screen back on, simply press the **POWER** (⏻) button again.  
➤ You can also switch on by pressing the **P**, **TV** or any numeric button on the remote control.
- Do not leave your television in Standby mode for long periods of time (when you are away on holiday, for example). Turn your television off by pressing the power switch on the back of the set. It is best to unplug the set from the mains and aerial.

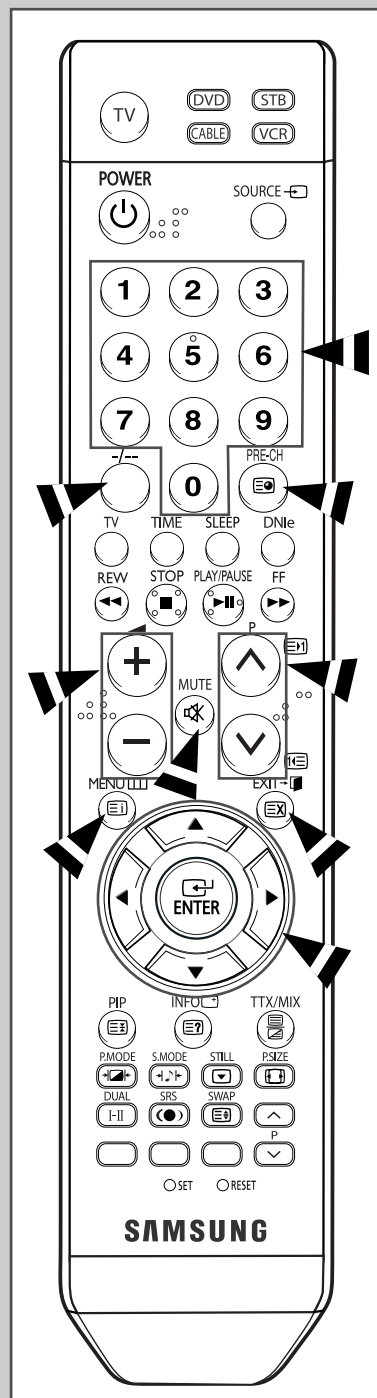
# Becoming Familiar with the Remote Control

The remote control is used mainly to:

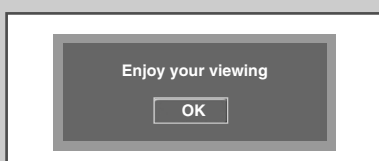
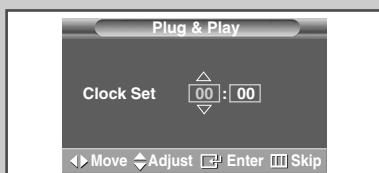
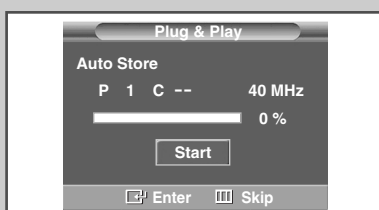
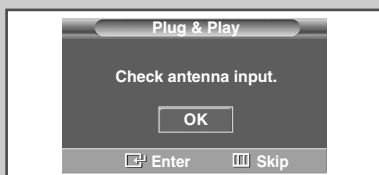
- ◆ Change channels and adjust the volume.
- ◆ Set up the television using the on-screen menu system.

The following table presents the most frequently used buttons and their functions.

Button	Viewing Function	Menu Function
<b>P</b> 	Used to display the next stored channel.	—
	Used to display the previous stored channel.	—
<b>0 to 9</b> 	Used to display the corresponding channels. ➤ For double digit channels, the second digit must be pushed immediately after the first. Failure to do this will result in a single digit channel being displayed.	
<b>-/--</b> 	Used to select a channel numbered ten or over. Press this button, and the “--” symbol is displayed. Enter the two-digit channel number.	
 	Used to increase the volume. Used to decrease the volume.	
<b>MUTE</b> 	Used to switch the sound off temporarily. ➤ To turn the sound back on, press this button again, or press the  or  button.	
<b>MENU</b> 	Used to display the on-screen menu system.	Used to return to the previous menu or normal viewing.
	—	Used to: ◆ Display a sub-menu containing selections for the current menu option. ◆ Increase/decrease a menu option value.
	—	Used to confirm your choice.
<b>EXIT</b> 		Used to exit from the menu system and return to normal viewing directly.
<b>PRE-CH</b>	Press the <b>PRE-CH</b> button. The TV will switch to the last channel viewed. To quickly switch between two channels that are far apart, select the first channel, then use the numeric buttons to select the second channel. Then, use the <b>PRE-CH</b> button to quickly alternate between them.	



## Plug & Play Feature



*When the television is initially powered on, several basic customer settings proceed automatically and subsequently.*

*The following settings are available.*

- 1 If the television is in standby mode, press the **POWER** (⏻) button on the remote control.  
Result: The message to start Plug & Play is displayed.
- 2 To start Plug & Play, press the **ENTER** (↵) button.  
Result: The **Language** menu is displayed.  
➤ The **Language** menu will automatically appear after several seconds, even if the **ENTER** (↵) button is not pressed.
- 3 Select the appropriate language by pressing the ▲ or ▼ button. Press the **ENTER** (↵) button.  
Result: The message to check the connected status of the antenna is displayed.
- 4 Make sure that the antenna is connected to the TV. Press the **ENTER** (↵) button.  
Result: The **Country** menu is displayed.  
➤ If you do not press the **ENTER** (↵) button, the clock setting menu appears after several seconds.
- 5 Select your country or area by pressing the ▲ or ▼ button. Press the **ENTER** (↵) button.  
Result: The menu to select channels is displayed.
- 6 To start channel store, press the **ENTER** (↵) button.  
Result: The search will end automatically. Channels are sorted and stored in the order which reflects their position in the frequency range (with lowest first and highest last). When this has finished, the menu to set the time will be displayed.  
➤ To stop the search before it has finished or return to normal viewing, press the **MENU** (≡) or the **ENTER** (↵) button.  
➤ Press the **ENTER** (↵) button to set the clock.
- 7 Press the ◀ or ▶ button to select the hour or minute. Set these by pressing the ▲ or ▼ button.  
➤ You can enter the hours or minutes by using the numeric buttons on the remote control.
- 8 The settings are complete, and the stored channel will be activated.

continued...

*If you want to reset this feature...*

- 1 Press the **MENU** ( ) button.  
Result: The main menu is displayed.
- 2 Press the **▲** or **▼** button to select **Setup**.  
Result: The **Setup** menu is displayed.
- 3 Press the **ENTER** ( ) button.
- 4 Press the **ENTER** ( ) button again to select **Plug & Play**.  
Result: The message to **start Plug & Play** is displayed.  
➤ For further details on settings, refer to the previous page.



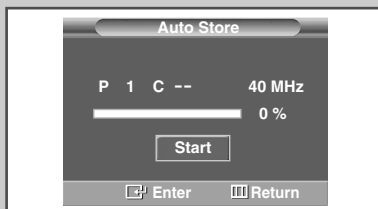
## Choosing Your Language

*When you start using your television for the first time, you must select the language which will be used for displaying menus and indications.*

- 1 Press the **MENU** ( ) button.  
Result: The main menu is displayed.
- 2 Press the **▲** or **▼** button to select **Setup**.  
Result: The **Setup** menu is displayed.
- 3 Press the **ENTER** ( ) button.
- 4 Press the **▲** or **▼** button to select **Language**.  
Press the **ENTER** ( ) button.  
Result: The available languages are listed.
- 5 Select the appropriate language by pressing the **▲** or **▼** button.  
Press the **ENTER** ( ) button.
- 6 Press the **EXIT** button to exit.



## Storing Channels Automatically



*You can scan for the frequency ranges available to you (availability depends on your country). Automatically allocated programme numbers may not correspond to actual or desired programme numbers. However you can sort numbers manually and clear any channels you do not wish to watch.*

- 1 Press the **MENU** ( ) button.

Result: The main menu is displayed.

- 2 Press the **▲** or **▼** button to select **Channel1**.

Result: The **Channel1** menu is displayed.

- 3 Press the **ENTER** ( ) button.

Result: The **Country** is selected.

- 4 Press the **ENTER** ( ) button again.

Result: The available countries are listed.

- 5 Select your **Country** by pressing the **▲** or **▼** button.

➤ If you have selected the **Others** option but do not wish to scan the PAL frequency range, store the channels manually ("Storing Channels Manually" on page 20).

- 6 Press the **ENTER** ( ) button.

- 7 Press the **▲** or **▼** button to select **Auto Store**.

Press the **ENTER** ( ) button.

Result: The **Auto Store** menu is displayed.

- 8 Press the **ENTER** ( ) button again to start the search.

Result: The search will end automatically. Channels are sorted and stored in the order which reflects their position in the frequency range (with lowest first and highest last). The programme originally selected is then displayed.

➤ To stop the search before it has finished, press the **MENU** ( ) or the **ENTER** ( ) button.

- 9 When the channels have been stored, you can:

- ◆ Sort them in the order required ("Sorting the Stored Channels" on page 22).
- ◆ Clear a channel ("Skipping Unwanted Channels" on page 21).
- ◆ Fine-tune channel reception if necessary ("Fine Tuning Channel Reception" on page 26).
- ◆ Assign a name to the stored channels ("Assigning Names to Channels" on page 23).
- ◆ Activate/deactivate the Digital NR (Noise Reduction) feature ("Using the Digital NR (Noise Reduction) Feature" on page 40).
- ◆ Activate/deactivate the LNA (Low Noise Amplifier) feature ("Using the LNA (Low Noise Amplifier) Feature" on page 25).

# Storing Channels Manually

You can store television channels, including those received via cable networks.

When storing channels manually, you can choose:

- ◆ Whether or not to store each of the channels found.
- ◆ The programme number of each stored channel which you wish to identify.

1 Press the **MENU** ( ) button.

Result: The main menu is displayed.

2 Press the **▲** or **▼** button to select **Channel**.

Result: The **Channel** menu is displayed.

3 Press the **ENTER** ( ) button.

4 Press the **▲** or **▼** button to select **Manual Store**.

Press the **ENTER** ( ) button.

5 If necessary, select the broadcasting standard required.

Press the **▲** or **▼** button to select **Colour System**.

Press the **ENTER** ( ) button.

6 Select the required colour standard by pressing the **▲** or **▼** button. Press the **ENTER** ( ) button.

Result: The following options are available.  
(depending on the model)

**AUTO - PAL - SECAM - NTSC 4.43**

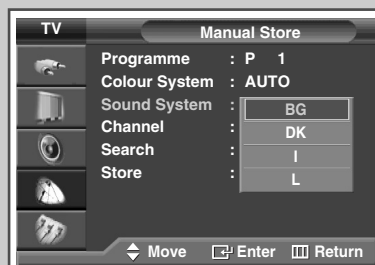
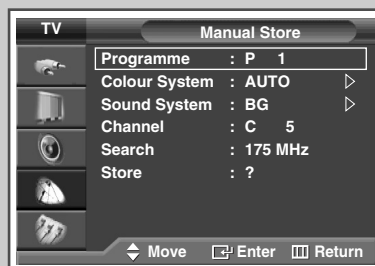
7 Press the **▲** or **▼** button to select **Sound System**.

Press the **ENTER** ( ) button.

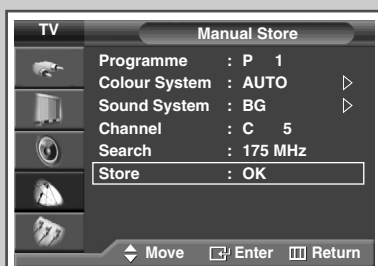
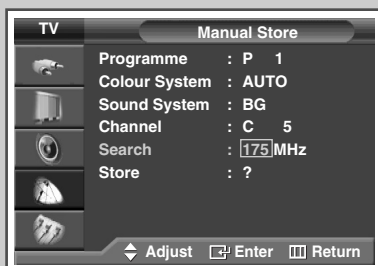
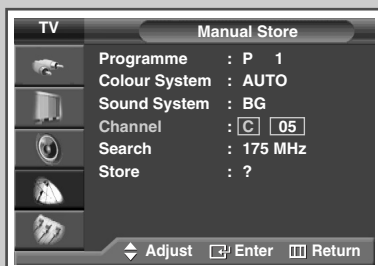
8 Select the required sound standard by pressing the **▲** or **▼** button. Press the **ENTER** ( ) button.

Result: The following options are available.

**BG - DK - I - L**



continued...



**9** If you know the number of the channel to be stored, see the following steps.

- ◆ Press the ▲ or ▼ button to select **Channel1**. Press the **ENTER** (↵) button.
- ◆ Press the ▲ or ▼ button to select **C** (Air channel) or **S** (Cable channel).
- ◆ Press the ► button.
- ◆ Press the ▲ or ▼ button to select the required number. Press the **ENTER** (↵) button.
- You can select the channel directly by pressing the numeric buttons on the remote control.
- If there is abnormal sound or no sound, re-select the sound standard required.

**10** If you do not know the channel numbers, select **Search** by pressing the ▲ or ▼ button. Press the **ENTER** (↵) button. Press the ▲ or ▼ button to start the search. Press the **ENTER** (↵) button.

Result: The tuner scans the frequency range until the first channel or the channel that you selected is received on your screen.

**11** To assign a programme number to a channel, select **Programme** by pressing the ▲ or ▼ button. Press the **ENTER** (↵) button.

**12** Press the ▲ or ▼ button until you find the correct number. Press the **ENTER** (↵) button.

- You can select the programme directly by pressing the numeric buttons on the remote control.

**13** To store the channel and associated programme number, select **Store** by pressing the ▲ or ▼ button. Set to **OK** by pressing the **ENTER** (↵) button.

**14** Repeat steps **9** to **13** for each channel to be stored.

**15** Press the **EXIT** button to exit.



### **Channel mode**

- ◆ **P** (Programme mode): When completing tuning, the broadcasting stations in your area have been assigned to position numbers from P00 to P99. You can select a channel by entering the position number in this mode.
- ◆ **C** (Air channel mode): You can select a channel by entering the assigned number to each air broadcasting station in this mode.
- ◆ **S** (Cable channel mode): You can select a channel by entering the assigned number for each cable channel in this mode.

## Skiping Unwanted Channels

*You can exclude the channels of your choice from the channel scan operation. When you scan through the stored channels, those that you have chosen to skip are not displayed.*

*All channels that you do not specifically choose to skip are displayed during scanning.*

- 1 Press the **MENU** ( ) button.

Result: The main menu is displayed.

- 2 Press the **▲** or **▼** button to select **Channel**.

Result: The **Channel** menu is displayed.

- 3 Press the **ENTER** ( ) button.

- 4 Press the **▲** or **▼** button to select **Add/Delete**.

Press the **ENTER** ( ) button.

Result: The **Add/Delete** menu is displayed with the current channel selected.

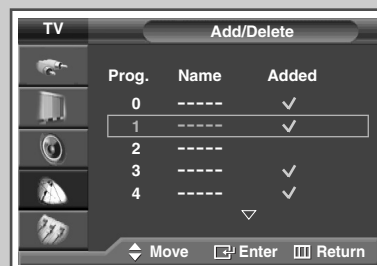
- 5 Press the **▲** or **▼** button to delete or add the required channel.

Press the **ENTER** ( ) button.

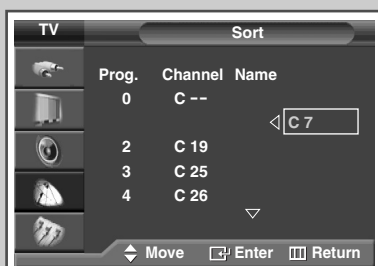
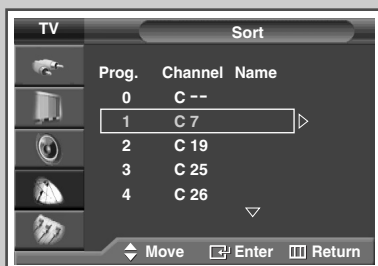
Result: If the **ENTER** ( ) button is pressed repeatedly, the ✓ will appear and disappear.  
If the ✓ appears, the channel is added.

- 6 Repeat step 5 for each channel to be deleted or added.

- 7 Press the **EXIT** button to exit.



## Sorting the Stored Channels



*This operation allows you to change the programme numbers of stored channels. This operation may be necessary after using auto store.*

- 1 Press the **MENU** ( ) button.  
Result: The main menu is displayed.
- 2 Press the **▲** or **▼** button to select **Channel**.  
Result: The **Channel1** menu is displayed.
- 3 Press the **ENTER** ( ) button.
- 4 Press the **▲** or **▼** button to select **Sort**.  
Press the **ENTER** ( ) button.
- 5 Select the channel that you wish to move by pressing the **▲** or **▼** button. Press the **ENTER** ( ) button.
- 6 Select the number of the programme to which the channel is to be moved by pressing the **▲** or **▼** button.  
Press the **ENTER** ( ) button.  
Result: The channel is moved to its new position and all other channels are shifted accordingly.
- 7 Repeat steps 5 to 6 until you have moved all the channels to the required programme numbers.
- 8 Press the **EXIT** button to exit.

## Assigning Names to Channels

Channel names will be assigned automatically when channel information is broadcast. These names can be changed, allowing you to assign new names.

- 1 Press the **MENU** ( ) button.

Result: The main menu is displayed.

- 2 Press the **▲** or **▼** button to select **Channel1**.

Result: The **Channel1** menu is displayed.

- 3 Press the **ENTER** ( ) button.

- 4 Press the **▲** or **▼** button to select **Name**.  
Press the **ENTER** ( ) button.

Result: The **Name** menu is displayed with the current channel selected.

- 5 Press the **▲** or **▼** button to select the channel to be assigned to a new name. Press the **ENTER** ( ) button.

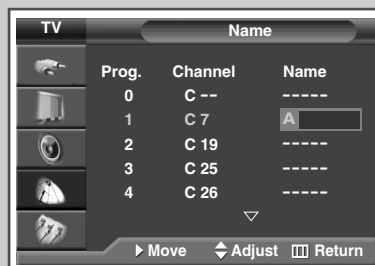
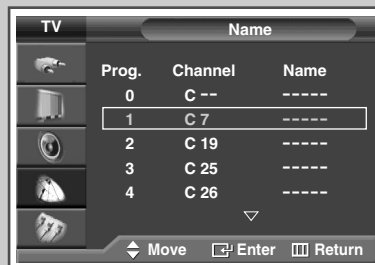
Result: Arrow indications are displayed around the name box.

- 6 Press the **▲** or **▼** button to select a letter (A~Z), a number (0~9), or a symbol. Move on to the previous or next letter by pressing the **◀** or **▶** button.

- 7 Press the **ENTER** ( ) button.

- 8 Repeat steps 5 to 7 for each channel to be assigned to a new name.

- 9 Press the **EXIT** button to exit.



## Locking the Channel



*This feature allows you to prevent unauthorized users, such as children, from watching unsuitable programmes by muting out video and audio. Child Lock cannot be released using front panel buttons. Only remote control can release the Child Lock setting, so keep the remote control away from children.*

- 1 Press the **MENU** ( ) button.  
Result: The main menu is displayed.
- 2 Press the **▲** or **▼** button to select **Setup**.  
Result: The **Setup** menu is displayed.
- 3 Press the **ENTER** ( ) button.
- 4 Press the **▲** or **▼** button to select **Child Lock**.  
Press the **ENTER** ( ) button.
- 5 Press the **ENTER** ( ) button again.  
Select **On** by pressing the **▲** or **▼** button.  
Press the **ENTER** ( ) button.
- 6 Press the **▲** or **▼** button to select **Programme**.  
Press the **ENTER** ( ) button.
- 7 Select the number of programme to which the channel is to be locked by pressing the **▲** or **▼** button.  
Press the **ENTER** ( ) button.
- 8 Press the **▲** or **▼** button to select **Lock**.  
Select **Locked** by pressing the **ENTER** ( ) button.  
Result: The selected channel is locked and marked with the symbol.
- 9 Press the **EXIT** button to exit.

- ♦ A Blue screen is displayed when the **Child Lock** is activated.
- ♦ To unlock the Channel lock, press the **ENTER** ( ) button again. The locked channel is unlocked.
- ♦ When a channel is locked, the channel is marked with the symbol on the left side in the Channel OSD (On Screen Display).

## Using the LNA (Low Noise Amplifier) Feature

*This function is very useful in the situation that the TV is used in a weak signal area. LNA amplifies the TV signal in the weak signal area, a low-noise preamplifier boosts the incoming signal.*

- 1 Press the **MENU** (□□□) button.

Result: The main menu is displayed.

- 2 Press the **▲** or **▼** button to select **Channel**.

Result: The **Channel** menu is displayed.

- 3 Press the **ENTER** (↵) button.

- 4 Press the **▲** or **▼** button to select **LNA**.  
Press the **ENTER** (↵) button.

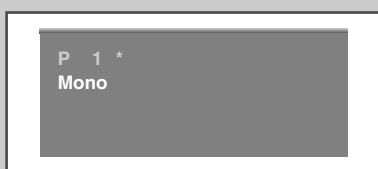
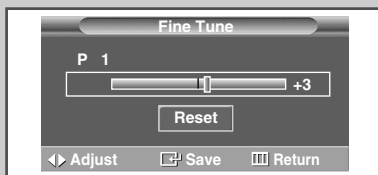
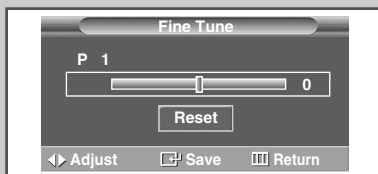
- 5 Select **Off** or **On** by pressing the **▲** or **▼** button.  
Press the **ENTER** (↵) button.

- 6 Press the **EXIT** button to exit.

- ◆ If the picture is noisy with the **LNA** set to **On**, select **Off**.
- ◆ **LNA** setting must be set for each individual channel.



## Fine Tuning Channel Reception

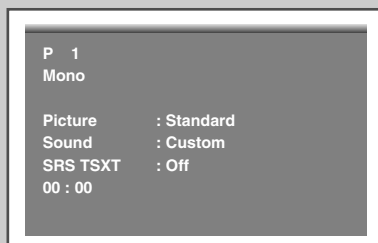


*If the reception is clear, you do not have to fine tune the channel, as this is done automatically during the search and store operation. If the signal is weak or distorted, you may have to fine tune the channel manually.*

- 1 Press the **MENU** ( ) button.  
Result: The main menu is displayed.
- 2 Press the **▲** or **▼** button to select **Channel**.  
Result: The **Channel** menu is displayed.
- 3 Press the **ENTER** ( ) button.
- 4 Press the **▲** or **▼** button to select **Fine Tune**.  
Press the **ENTER** ( ) button.  
Result: The horizontal bar is displayed.
- 5 To obtain a sharp and clear picture and good sound quality, press the **◀** or **▶** button until you reach the optimal setting.
- 6 To store the fine tuning setting in the TV's memory, press the **ENTER** ( ) button.  
Result: The programme number changes to red and is marked with a "\*".
- 7 To reset the fine tuning to **0**, select **Reset** by pressing the **▲** or **▼** button. Press the **ENTER** ( ) button.
- 8 Press the **EXIT** button to exit.

- If you are unable to fine tune a channel, check that the Colour System and Sound System settings are correct.
- Fine Tune Store will change the colour of the Channel OSD (On Screen Display) from White to Red and add the "\*" mark.

## Displaying Information



*You can view the channel information and setting status you have selected by pressing the **INFO** ( ) button on the remote control. The information displayed varies according to the selected source.*

## Changing the Picture Standard

*You can select the type of picture which best corresponds to your viewing requirements.*

- 1 Press the **MENU** ( ) button.

Result: The main menu is displayed.

- 2 Press the **▲** or **▼** button to select **Picture**.

Result: The **Picture** menu is displayed.

- 3 Press the **ENTER** ( ) button.

Result: The **Mode** is selected.

- 4 Press the **ENTER** ( ) button again.

Result: The **Mode** menu is displayed.

- 5 Press the **ENTER** ( ) button.

Result: The following options are available.

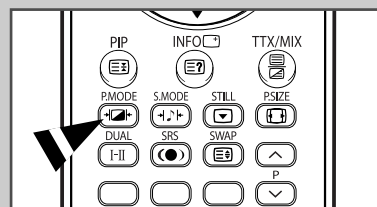
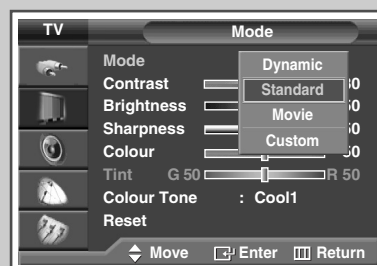
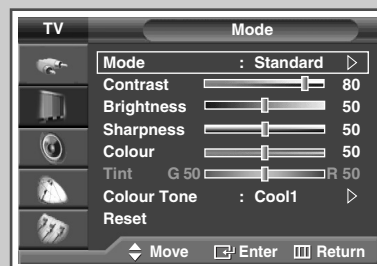
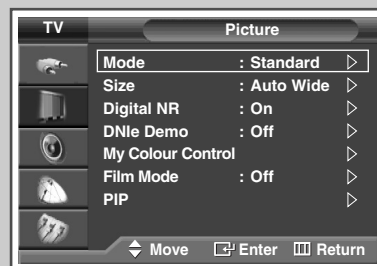
**Dynamic - Standard - Movie - Custom**

- ◆ Choose **Dynamic** for viewing the TV during the day or when there is bright light in the room.
- ◆ Choose **Standard** for the standard factory settings.
- ◆ Choose **Movie** when viewing a movie.
- ◆ Choose **Custom** if you want to adjust the settings according to personal preference (see "Customizing the Picture Settings", page 28).

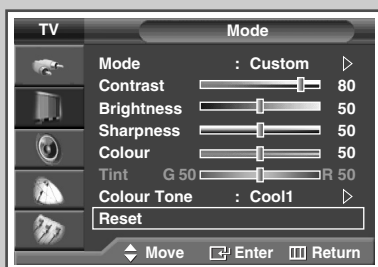
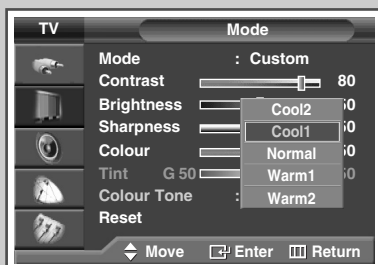
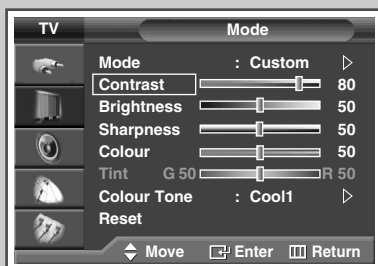
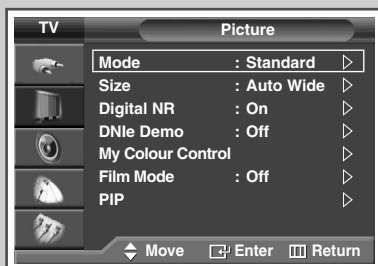
- 6 Select the required option by pressing the **▲** or **▼** button. Press the **ENTER** ( ) button.

- 7 Press the **EXIT** button to exit.

- You can also set these options simply by pressing the **P.MODE** ( ) button on the remote control.



# Customizing the Picture Settings



Your television has several setting options that allow you to control the picture quality.

- 1 Press the **MENU** ( ) button.  
Result: The main menu is displayed.
- 2 Press the **▲** or **▼** button to select **Picture**.  
Result: The **Picture** menu is displayed.
- 3 Press the **ENTER** ( ) button.  
Result: The **Mode** is selected.
- 4 Press the **ENTER** ( ) button again.  
Result: The **Mode** menu is displayed.
- 5 Press the **ENTER** ( ) button.  
Result: The following options are available.  
**Dynamic - Standard - Movie - Custom**
- 6 Select the required option by pressing the **▲** or **▼** button.
- 7 Press the **ENTER** ( ) button.
- 8 Select the required option by pressing the **▲** or **▼** button.  
Result: The following options are available.
  - ◆ **Contrast - Brightness - Sharpness - Colour - Tint** (NTSC only)
  - ◆ **Contrast - Brightness** : PC mode.
- 9 Press the **ENTER** ( ) button.  
Result: The horizontal bar is displayed.  
Press the **◀** or **▶** button until you reach the optimal setting.
  - ◆ Press the **▲** or **▼** button to select other option(s).
  - ◆ The settings values may vary depending on the input source. (ex. RF, Video, Component, PC, or HDMI.)
- 10 Press the **MENU** ( ) button to return to **Mode** menu.  
Press the **▲** or **▼** button to select **Colour Tone**.  
Press the **ENTER** ( ) button.
- 11 Select the required option by pressing the **▲** or **▼** button.  
Result: The following options are available.  
**Cool2 - Cool1 - Normal - Warm1 - Warm2**
- 12 Press the **ENTER** ( ) button.
- 13 To return the factory defaults, select **Reset** by pressing the **▲** or **▼** button. Press the **ENTER** ( ) button.  
Result: The previously adjusted settings will be reset to the factory defaults.
  - The reset function is set for each mode (**Dynamic**, **Standard**, **Movie**, or **Custom**).
  - The reset function is also set for each **Colour Tone** (**Cool2**, **Cool1**, **Normal**, **Warm1**, or **Warm2**).
- 14 Press the **EXIT** button to exit.

## Setting the Picture (PC Mode)

➤ Preset to the **PC** mode by pressing the **SOURCE** (  ) button.

1 Press the **MENU** (  ) button.

Result: The main menu is displayed.



2 Press the **▲** or **▼** button to select **Setup**.

Result: The **Setup** menu is displayed.

3 Press the **ENTER** (  ) button.

4 Press the **▲** or **▼** button to select **PC**.  
Press the **ENTER** (  ) button.

Result: The **PC** menu is displayed.

5 Press the **ENTER** (  ) button to select **Image Lock**.  
Press the **ENTER** (  ) button.

6 Press the **▲** or **▼** button to select the option (**Coarse** or **Fine**) to be adjusted. Press the **ENTER** (  ) button.

Result: The horizontal bar is displayed.

Press the **◀** or **▶** button until you reach the optimal setting.

➤ The purpose of picture quality adjustment is to remove or reduce picture noise.  
If the noise is not removed by Fine-tuning alone, then adjust the frequency as best as possible (coarse) and Fine-tune again. After the noise has been reduced, re-adjust the picture so that it is aligned on the center of screen.

➤ Press the **▲** or **▼** button to select other option(s).

7 Press the **ENTER** (  ) button.

8 Press the **MENU** (  ) button.

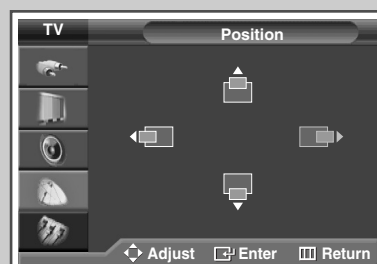
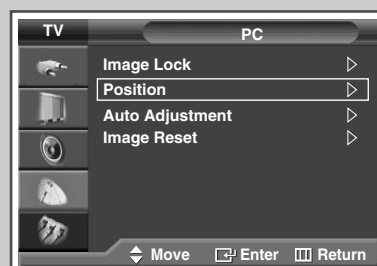
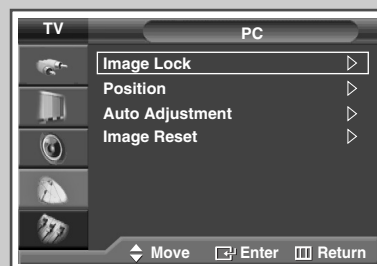
Result: The **PC** menu is displayed again.

9 Press the **▲** or **▼** button to select **Position**.  
Press the **ENTER** (  ) button.

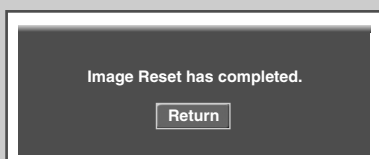
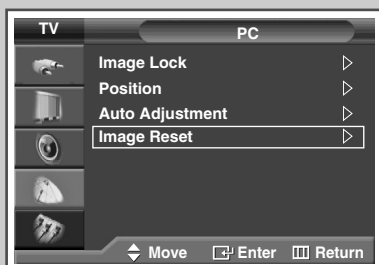
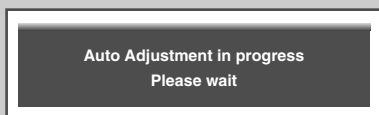
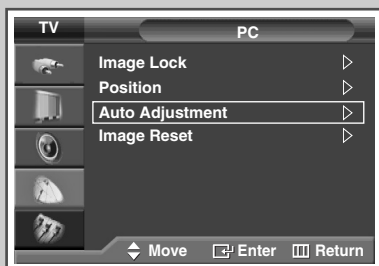
➤ Adjust the PC's screen positioning if it does not fit the TV screen.

10 Adjust the position by pressing the **▲/▼/◀/▶** button.

11 Press the **ENTER** (  ) button.



continued...



- 
- 12** Press the ▲ or ▼ button to select **Auto Adjustment**.  
Press the **ENTER** (↵) button.

Result: The screen quality and position are automatically reset.  
The settings are all finished, and the TV will automatically return to the previous picture.

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- 13** To return the factory defaults, select **Image Reset** by pressing the ▲ or ▼ button. Press the **ENTER** (↵) button.

Result: The previously adjusted settings will be reset to the factory defaults.

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- 14** Press the **EXIT** button to exit.
-

## Selecting the Picture Size

You can select the picture size which best corresponds to your viewing requirements.

- 1 Press the **MENU** ( ) button.

Result: The main menu is displayed.

- 2 Press the **▲** or **▼** button to select **Picture**.

Result: The **Picture** menu is displayed.

- 3 Press the **ENTER** ( ) button.

- 4 Press the **▲** or **▼** button to select **Size**.  
Press the **ENTER** ( ) button.

- 5 Select the required option by pressing the **▲** or **▼** button.

Result: The following modes are available depending on the mode.

- ◆ **Auto Wide** : Expanding and pulling up the picture from 4:3 to 16:9 ratio.
- ◆ **16:9** : Sets the picture to 16:9 wide mode. Press the **►** button. The picture position ( , ) and size ( ) adjustment are able in these mode by pressing the **▲** or **▼** button.
- ◆ **Zoom** : Magnify the size of the picture vertically on screen. Press the **►** button. The picture position ( ) and size ( ) adjustment are able in these mode by pressing the **▲** or **▼** button.
- ◆ **4:3** : Sets the picture to 4:3 wide mode. Press the **►** button. The picture position ( , ) and size ( ) adjustment are able in these mode by pressing the **▲** or **▼** button.

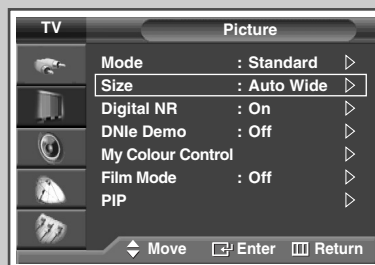
- 6 When you are satisfied with your setting, press the **ENTER** ( ) button.

- 7 Press the **EXIT** button to exit.

- ◆ You can select these options simply by pressing the **P.SIZE** button on the remote control.
- ◆ If you change the picture size when PIP is On, PIP will automatically be turned Off.
- ◆ Depending on the input source, the **P.SIZE** options may vary.

### Positioning and Sizing the screen using Zoom

- ◆ Resizing the screen using the **Zoom** enables the positioning and sizing of the screen to up/down direction using the **▲** or **▼** button as well as the screen size.
- ◆ Move the screen up/down using the **▲** or **▼** button after selecting the by pressing the **◀** or **▶** button.
- ◆ Resize the screen vertically using the **▲** or **▼** button after selecting the by pressing the **◀** or **▶** button. (Pressing the **▲** button extends it upward and pressing the **▼** button extends it downward.)
- ◆ Screen enlargement operates only in RF/AV/S-video/SD level Component(480i,576i,480p,576p) input modes.



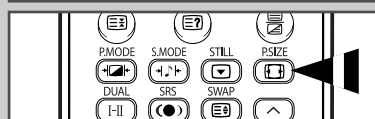
### RF/AV/S-Video SD-level-Component Mode



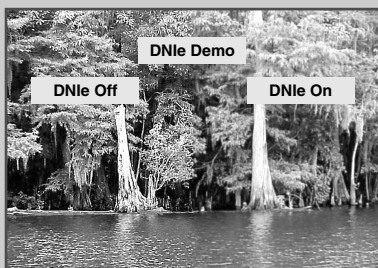
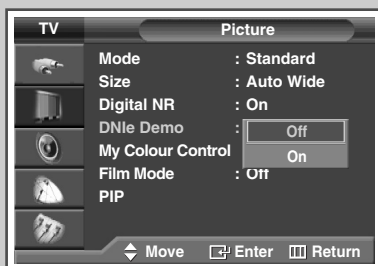
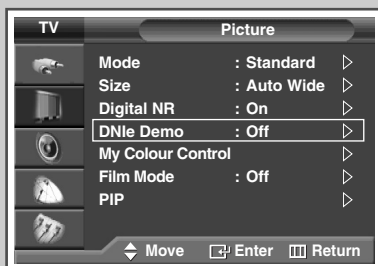
### PC Mode



### HDMI Mode



## Viewing the DNle Demonstration



*This TV includes the DNle function so as to provide a high visual quality.*

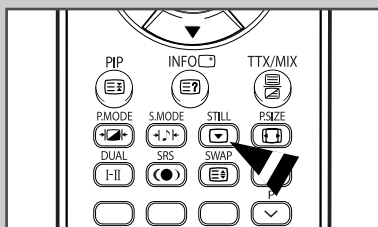
*If you set DNle Demo to On, you can view an applied DNle and a normal picture on the screen, for demonstration purposes. Using this function, you can view the difference in the visual quality.*

- 1 Press the **MENU** ( ) button.  
Result: The main menu is displayed.
- 2 Press the **▲** or **▼** button to select **Picture**.  
Result: The **Picture** menu is displayed.
- 3 Press the **ENTER** ( ) button.
- 4 Press the **▲** or **▼** button to select **DNle Demo**.  
Press the **ENTER** ( ) button.
- 5 Select **Off** or **On** by pressing the **▲** or **▼** button.  
Result: The following options are available.
  - ◆ **On** : Switches on the **DNle Demo** mode.
  - ◆ **Off** : Switches off the **DNle Demo** mode.
- 6 When you are satisfied with your setting, press the **ENTER** ( ) button.
- 7 Press the **EXIT** button to exit.

### ➤ **DNle™ (Digital Natural Image engine) DNle**

This feature brings you more detailed image with 3D noise reduction, detail enhancement, contrast enhancement and white enhancement. New image compensation Algorithm gives brighter, clearer, more detailed image to you. DNle™ technology will fit every signal into your eyes.

## Freezing the Current Picture



*You can freeze the picture when watching a television programme simply by pressing the **STILL** button. To return to normal viewing, press it again.*

- In the PIP mode, the main and sub pictures are stilled at the same time.

## Setting the My Colour Control (Easy Control)

*This feature allows you to adjust colours according to your preferences, by adjusting skin, sky, and grass tones using the predefined settings (Blue, Green, Pink, Standard, and Custom) without affecting other colours on the screen.*

- 1 Press the **MENU** ( ) button.

Result: The main menu is displayed.

- 2 Press the **▲** or **▼** button to select **Picture**.

Result: The **Picture** menu is displayed.

- 3 Press the **ENTER** ( ) button.

- 4 Press the **▲** or **▼** button to select **My Colour Control**.  
Press the **ENTER** ( ) button.

Result: The **Easy Control** is selected.

- 5 Press the **ENTER** ( ) button again.

➤ The current image will be displayed on the screen.

Result: The following options are available.

- ◆ **Blue**  
Emphasizing clear blues.
- ◆ **Green**  
Emphasizing mild greens.
- ◆ **Pink**  
Emphasizing warm skin colours.
- ◆ **Standard**  
Standard picture.
- ◆ **Custom**  
Changing the settings in the **Detail Control** menu will automatically set to **Custom** (see next page).

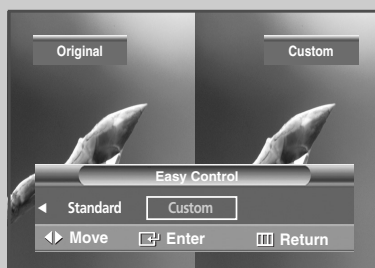
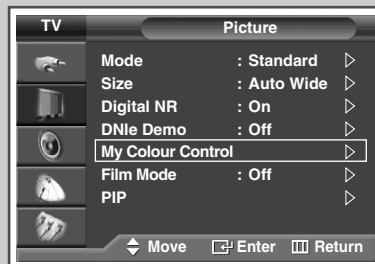
- 6 Select the required option by pressing the **◀** or **▶** button.

Result: The original picture (before adjustment) is shown on the left side, while the selected mode is shown on the right side.

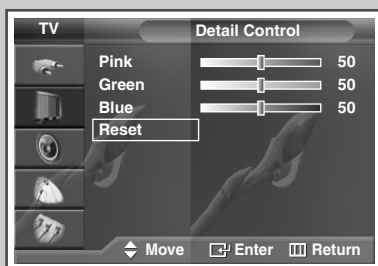
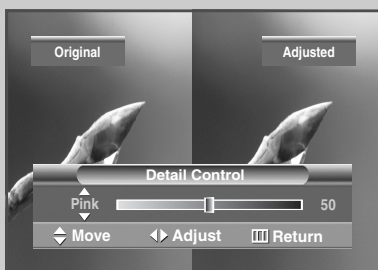
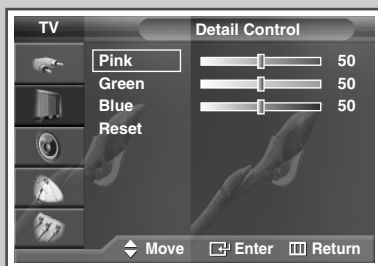
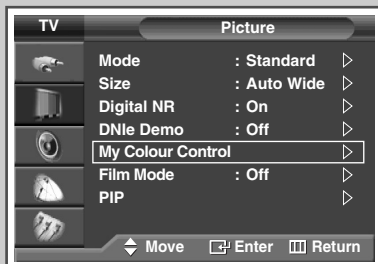
- 7 When you are satisfied with your setting, press the **ENTER** ( ) button.

- 8 Press the **EXIT** button to exit.

- 
- ◆ The My Colour Control is not available in PC mode.
  - ◆ When running the My Colour Control feature, the current picture is captured as a still image before being displayed on the screen.
  - ◆ You cannot use this function, when PIP is On.



## Setting the My Colour Control (Detail Control)



*This setting can be adjusted to suit your personal preferences.*

- 1 Press the **MENU** ( ) button.  
Result: The main menu is displayed.
- 2 Press the **▲** or **▼** button to select **Picture**.  
Result: The **Picture** menu is displayed.
- 3 Press the **ENTER** ( ) button.
- 4 Press the **▲** or **▼** button to select **My Colour Control**. Press the **ENTER** ( ) button.
- 5 Press the **▲** or **▼** button to select **Detail Control**. Press the **ENTER** ( ) button.
- 6 Select the required option (**Pink**, **Green**, or **Blue**) by pressing the **▲** or **▼** button. Press the **ENTER** ( ) button.
- 7 Press the **◀** or **▶** button until you reach the optimal setting.  
Result: Changing the adjustment value will refresh the adjusted screen.  
➤ Press the **▲** or **▼** button to select other option(s).
- 8 Press the **MENU** ( ) button.  
Result: The **Detail Control** menu is displayed again.
- 9 To return the factory defaults, select **Reset** by pressing the **▲** or **▼** button. Press the **ENTER** ( ) button.  
Result: The previously adjusted colours will be reset to the factory defaults.
- 10 Press the **EXIT** button to exit.

## Setting the Blue Screen

*If no signal is being received or the signal is very weak, a blue screen automatically replaces the noisy picture background. If you wish to continue viewing the poor picture, you must set the Blue Screen mode to Off.*

- 1 Press the **MENU** ( ) button.  
Result: The main menu is displayed.
- 2 Press the **▲** or **▼** button to select **Setup**.  
Result: The **Setup** menu is displayed.
- 3 Press the **ENTER** ( ) button.
- 4 Press the **▲** or **▼** button to select **Blue Screen**.  
Press the **ENTER** ( ) button.
- 5 Select **Off** or **On** by pressing the **▲** or **▼** button.  
Press the **ENTER** ( ) button.
- 6 Press the **EXIT** button to exit.



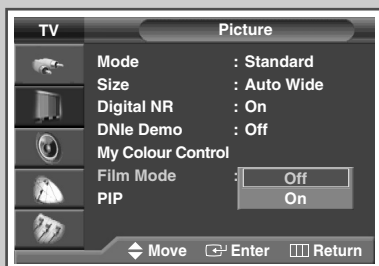
## Activating Panel Button Lock

*This feature allows you to lock the TV panel buttons so that it cannot be operated via the TV panel. It can, however, still be operated via the remote control. Only remote control can release the panel lock setting, so keep the remote control away from unauthorized users.*

- 1 Press the **MENU** ( ) button.  
Result: The main menu is displayed.
- 2 Press the **▲** or **▼** button to select **Setup**.  
Result: The **Setup** menu is displayed.
- 3 Press the **ENTER** ( ) button.
- 4 Press the **▲** or **▼** button to select **Panel Lock**.  
Press the **ENTER** ( ) button.
- 5 Select **Off** or **On** by pressing the **▲** or **▼** button.  
Press the **ENTER** ( ) button.
- 6 Press the **EXIT** button to exit.



## Setting the Film Mode



*You can automatically sense and process film signals from all sources and adjust the picture for optimum quality.*

- 1 Press the **MENU** ( ) button.  
Result: The main menu is displayed.
- 2 Press the **▲** or **▼** button to select **Picture**.  
Result: The **Picture** menu is displayed.
- 3 Press the **ENTER** ( ) button.
- 4 Press the **▲** or **▼** button to select **Film Mode**.  
Press the **ENTER** ( ) button.
- 5 Select **Off** or **On** by pressing the **▲** or **▼** button.
  - ◆ **Off** Switches off the film mode.
  - ◆ **On** Automatically senses and processes film signals from all sources and adjusts the picture for optimum quality.
- 6 When you are satisfied with your setting, press the **ENTER** ( ) button.
- 7 Press the **EXIT** button to exit.

➤ ◆ The Film Mode is not available in PC, Component (except 480i, 576i), or HDMI mode.

## Viewing the Picture in Picture (PIP)

You can display a sub picture within the main picture of a TV program or external A/V devices. In this way you can monitor the video input from any connected devices while watching TV or other video input.

- 1 Press the **MENU** ( ) button.

Result: The main menu is displayed.

- 2 Press the **▲** or **▼** button to select **Picture**.

Result: The **Picture** menu is displayed.

- 3 Press the **ENTER** ( ) button.

- 4 Press the **▲** or **▼** button to select **PIP**.  
Press the **ENTER** ( ) button.

Result: The **PIP** is selected.

- 5 Press the **ENTER** ( ) button again.  
To activate, set **PIP** to **on** by pressing the **▲** or **▼** button.  
Press the **ENTER** ( ) button.

➤ You can select these options by simply pressing the **PIP** button on the remote control.

- 6 Press the **▲** or **▼** button to select **Source**.  
Press the **ENTER** ( ) button.

Result: The following options are available.

**TV - Ext.1 - Ext.2 - AV - S-Video**

➤ The same source cannot be selected on both the main and sub screens.

- 7 Select a source of the sub picture by pressing the **▲** or **▼** button.  
Press the **ENTER** ( ) button.

- 8 Press the **▲** or **▼** button to select **Swap**.  
Press the **ENTER** ( ) button.

Result: The main picture and sub picture are interchanged.

➤ You cannot use the Swap function for PC, HDMI or Component.

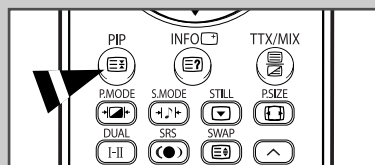
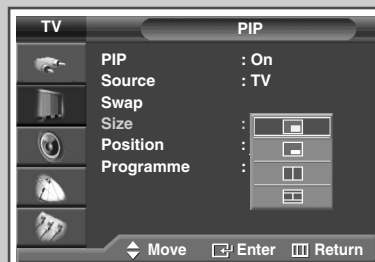
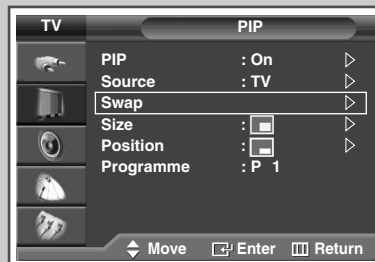
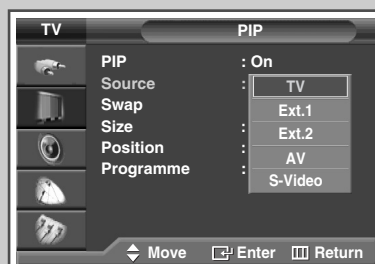
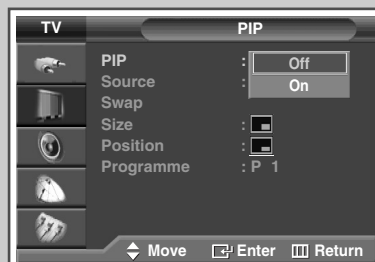
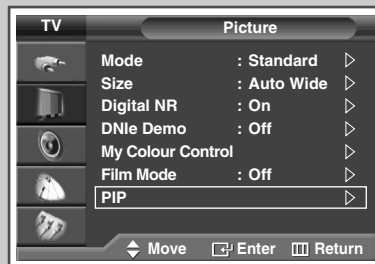
- 9 Press the **▲** or **▼** button to select **Size**.  
Press the **ENTER** ( ) button.

Result: The following options are available.

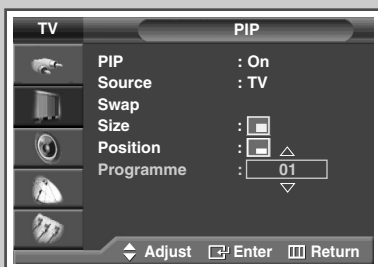
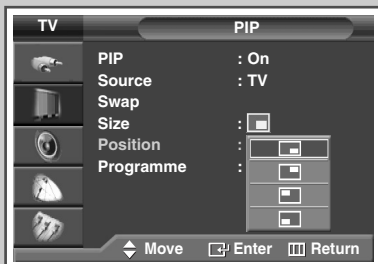
- - -

➤ You cannot use the Double size ( , ) function for **PC** or **HDMI** mode.

- 10 Select a size of the sub picture by pressing the **▲** or **▼** button.  
Press the **ENTER** ( ) button.



continued...



- 
- 11** Press the ▲ or ▼ button to select **Position**.  
Press the **ENTER** (↵) button.

Result: The following options are available.



- The **Position** menu is available when the **Size** is  
□ or □ mode.

- 
- 12** Select a position of the sub picture by pressing the ▲ or ▼ button. Press the **ENTER** (↵) button.

- 
- 13** Press the ▲ or ▼ button to select **Programme**.  
Press the **ENTER** (↵) button.

- 
- 14** Select the channel that you want to view through sub picture by pressing the ▲ or ▼ button.

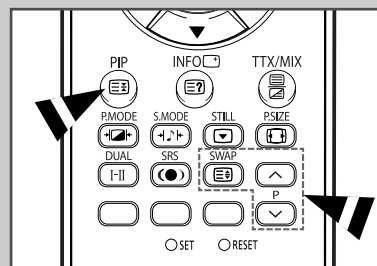
- 
- 15** When you are satisfied with your setting, press the **ENTER** (↵) button.

- 
- 16** Press the **EXIT** button to exit.
- 

continued...

## Easy functions of the remote control.

Buttons	Feature
<b>PIP</b>	Used to activate or deactivate the PIP function directly.
<b>SWAP</b>	Used to interchange the main picture and the sub picture. <ul style="list-style-type: none"> <li>➤ When the main picture is in the Video mode and the sub picture is in the TV mode, you might not hear the sound of main picture when pressing the <b>SWAP</b> button after changing the sub picture channel. At this time, reselect the channel of main picture.</li> </ul>
<b>P(^/v)</b>	Used to select a channel of the sub picture.



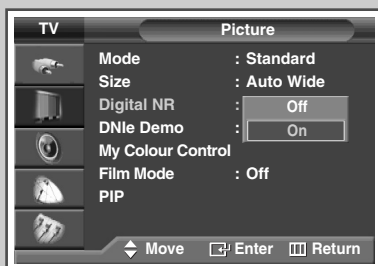
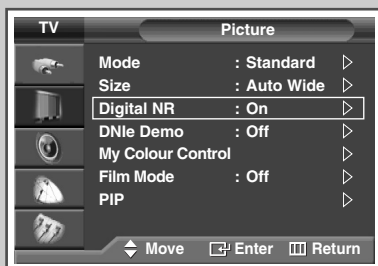
## Table of PIP Settings

**X** - This PIP combination is not available.

**O** - This PIP combination is available.

Sub \ Main	TV	Ext.1	Ext.2	AV	S-Video	Component	PC	HDMI
TV	X	O	O	O	O	O	O	O
Ext.1	O	X	O	O	O	O	O	O
Ext.2	O	O	X	O	O	O	O	O
AV	O	O	O	X	O	O	O	O
S-Video	O	O	O	O	X	O	O	O
Component	X	X	X	X	X	X	X	X
PC	X	X	X	X	X	X	X	X
HDMI	X	X	X	X	X	X	X	X

## Using the Digital NR (Noise Reduction) Feature



*If the signal received by your television is weak, you can activate this feature to help reduce any static and ghosting that may appear on the screen.*

- 1 Press the **MENU** ( ) button.  
Result: The main menu is displayed.
- 2 Press the **▲** or **▼** button to select **Picture**.  
Result: The **Picture** menu is displayed.
- 3 Press the **ENTER** ( ) button.
- 4 Press the **▲** or **▼** button to select **Digital NR**.  
 Press the **ENTER** ( ) button.
- 5 Select **Off** or **On** by pressing the **▲** or **▼** button.  
 Press the **ENTER** ( ) button.
- 6 Press the **EXIT** button to exit.

## Changing the Sound Standard

*You can select the type of special sound effect to be used when watching a given broadcast.*

- 1 Press the **MENU** (  ) button.

Result: The main menu is displayed.

- 2 Press the **▲** or **▼** button to select **Sound**.

Result: The **Sound** menu is displayed.

- 3 Press the **ENTER** (  ) button.

Result: The **Mode** is selected.


- 4 Press the **ENTER** (  ) button again.

- 5 Select the required option by pressing the **▲** or **▼** button.

Result: The following options are available.

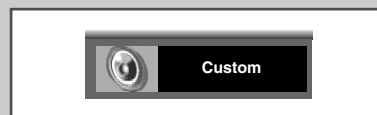
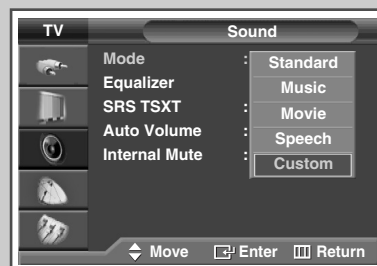
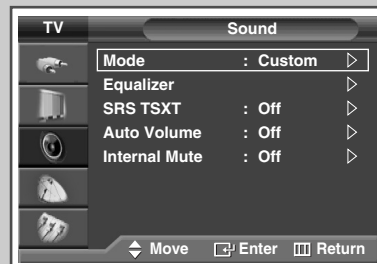
**Standard - Music - Movie - Speech - Custom**

- ◆ Choose **Standard** for the standard factory settings.
- ◆ Choose **Music** when watching music videos or concerts.
- ◆ Choose **Movie** when watching movies.
- ◆ Choose **Speech** when watching a show that is mostly dialog (i.e., news).
- ◆ Choose **Custom** to recall your personalized settings (see “Customizing the Sound Settings”, page 42).

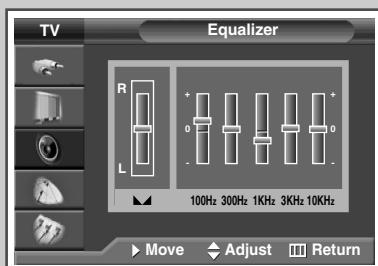
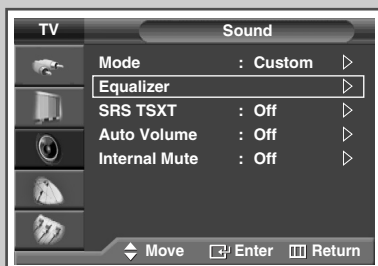
- 6 When you are satisfied with your setting, press the **ENTER** (  ) button.

- 7 Press the **EXIT** button to exit.

- You can select these options by simply pressing the **S.MODE** (  : Sound Mode) button on the remote control.



## Customizing the Sound Settings



*Your television has several settings which allow you to control the sound quality.*

- 1 Press the **MENU** ( ) button.  
Result: The main menu is displayed.
- 2 Press the **▲** or **▼** button to select **Sound**.  
Result: The **Sound** menu is displayed.
- 3 Press the **ENTER** ( ) button.
- 4 Press the **▲** or **▼** button to select **Equalizer**.  
Press the **ENTER** ( ) button.  
Result: The **Equalizer** menu is displayed.
- 5 Select the required option (balance or equalizer) by pressing the **◀** or **▶** button.
- 6 Press the **▲** or **▼** button until you reach the optimal setting.  
Press the **ENTER** ( ) button.
- 7 Press the **EXIT** button to exit.

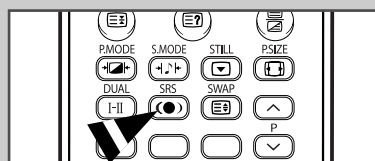
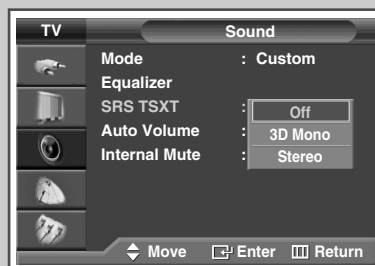
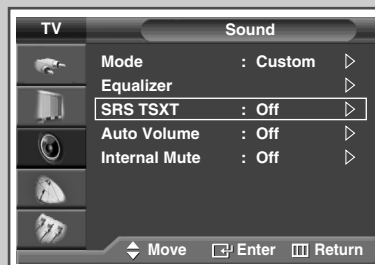
- If you make any changes to the sound settings, the sound standard is automatically switched to **Custom**.
- ♦ **L/R Sound Balance Adjustment**  
To adjust the sound balance of the L/R speakers.
- ♦ **Bandwidth Adjustment (100Hz, 300Hz, 1KHz, 3KHz, 10KHz)**  
To adjust the level of different bandwidth frequencies.

## Setting the TruSurround XT

*TruSurround XT is a patented SRS technology that solves the problem of playing 5.1 multichannel content over two speakers. TruSurround delivers a compelling, virtual surround sound experience through any two-speaker playback system, including internal television speakers. It is fully compatible with all multichannel formats.*

- 1 Press the **MENU** ( ) button.  
Result: The main menu is displayed.
- 2 Press the **▲** or **▼** button to select **Sound**.  
Result: The **Sound** menu is displayed.
- 3 Press the **ENTER** ( ) button.
- 4 Press the **▲** or **▼** button to select **SRS TSXT**.  
Press the **ENTER** ( ) button.
- 5 Select the required option by pressing the **▲** or **▼** button.  
Result: The following options are available.  
**Off - 3D Mono - Stereo**
- 6 When you are satisfied with your setting, press the **ENTER** ( ) button.
- 7 Press the **EXIT** button to exit.

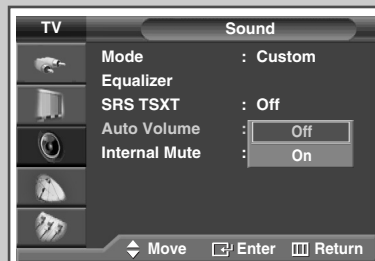
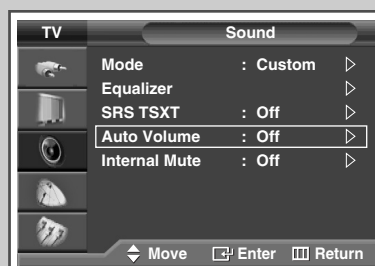
- You can select these options simply by pressing the **SRS** ( ) button on the remote control.
- TruSurround XT, SRS and ( ) Symbol are trademarks of SRS Labs, Inc. TruSurround XT technology is incorporated under license from SRS Labs, Inc.



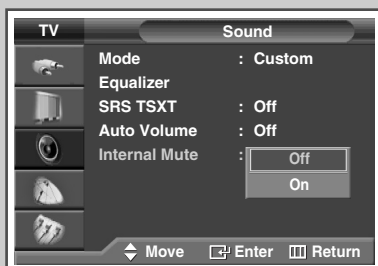
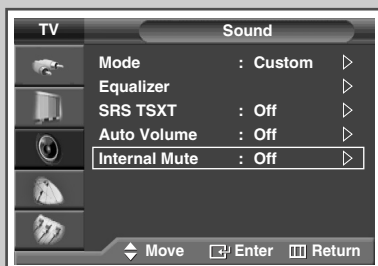
## Adjusting the Volume Automatically

*Each broadcasting station has its own signal conditions, the volume level differs between stations, therefore it is an inconvenience to adjust the volume every time the channel is changed. This feature lets you automatically adjust the volume of the desired channel by lowering the sound output when the modulation signal is high or by raising the sound output when the modulation signal is low.*

- 1 Press the **MENU** ( ) button.  
Result: The main menu is displayed.
- 2 Press the **▲** or **▼** button to select **Sound**.  
Result: The **Sound** menu is displayed.
- 3 Press the **ENTER** ( ) button.
- 4 Press the **▲** or **▼** button to select **Auto Volume**.  
Press the **ENTER** ( ) button.
- 5 Select **Off** or **On** by pressing the **▲** or **▼** button.  
Press the **ENTER** ( ) button.
- 6 Press the **EXIT** button to exit.



## Selecting the Internal Mute



*If you want to hear the sound through separate speakers, cancel the internal amplifier.*

- 1 Press the **MENU** ( ) button.  
Result: The main menu is displayed.
- 2 Press the **▲** or **▼** button to select **Sound**.  
Result: The **Sound** menu is displayed.
- 3 Press the **ENTER** ( ) button.
- 4 Press the **▲** or **▼** button to select **Internal Mute**.  
Press the **ENTER** ( ) button.
- 5 Select **Off** or **On** by pressing the **▲** or **▼** button.  
Press the **ENTER** ( ) button.
- 6 Press the **EXIT** button to exit.

➤ The **VOL +**, **VOL -** and **MUTE** ( ) buttons do not operate when the **Internal Mute** is set to **On**.

## Setting the Melody Sound



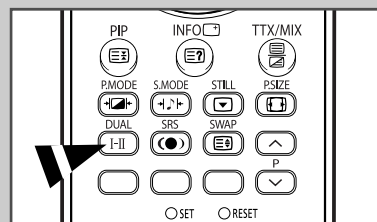
*You can hear melody sound when you switch the television on or off.*

- 1 Press the **MENU** ( ) button.  
Result: The main menu is displayed.
- 2 Press the **▲** or **▼** button to select **Setup**.  
Result: The **Setup** menu is displayed.
- 3 Press the **ENTER** ( ) button.
- 4 Press the **▲** or **▼** button to select **Melody**.  
Press the **ENTER** ( ) button.
- 5 Select **Off** or **On** by pressing the **▲** or **▼** button.  
Press the **ENTER** ( ) button.
- 6 Press the **EXIT** button to exit.

## Selecting the Sound Mode (depending on the model)

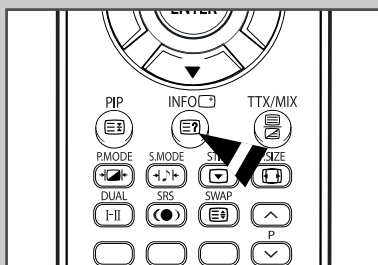
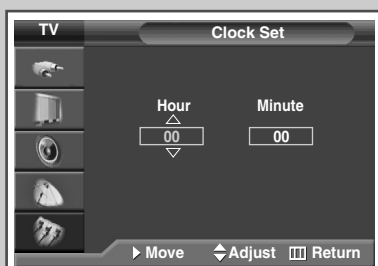
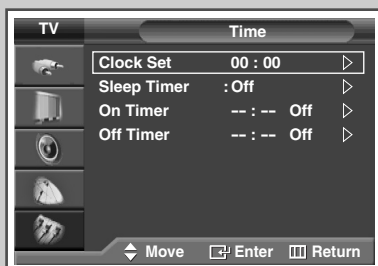
The **DUAL I-II** button displays/controls the processing and output of the audio signal. When power is switched on, the mode is automatically preset to either “**DUAL-I**” or “**Stereo**”, depending on the current transmission.


	Type of broadcast	On-screen indication
<b>NICAM Stereo</b>	Regular broadcast (Standard audio)	<b>Mono</b> (Normal use)
	Regular + NICAM Mono	<b>NICAM Mono</b> ↔ <b>Mono</b>
	NICAM stereo	<b>NICAM stereo</b> ↔ <b>Mono</b> (Forced mono)
	NICAM DUAL-I/II	<b>NICAM DUAL-I</b> → <b>NICAM DUAL-II</b> → <b>Mono</b>
<b>A2 Stereo</b>	Regular broadcast (Standard audio)	<b>Mono</b>
	Bilingual or DUAL-I/II	<b>DUAL-I</b> ↔ <b>DUAL-II</b>
	Stereo	<b>Stereo</b> ↔ <b>Mono</b> (Forced mono)








- ◆ If the receiving conditions deteriorate, listening will be easier if the mode is set to **Mono**.
- ◆ If the stereo signal is weak and automatic switching occurs, switch to **Mono**.
- ◆ When receiving mono sound in AV mode, connect to the AUDIO-L input connector on the panel (front or side, depending on the model). If mono sound only comes out of the left speaker, press the **DUAL I-II** button.

## Setting and Displaying the Current Time








*You can set the television's clock so that the current time is displayed by pressing the **INFO** (  ) button. You must also set the time if you wish to use the automatic on or off timers.*

- 1 Press the **MENU** (  ) button.  
Result: The main menu is displayed.
- 2 Press the **▲** or **▼** button to select **Setup**.  
Result: The **Setup** menu is displayed.
- 3 Press the **ENTER** (  ) button.
- 4 Press the **▲** or **▼** button to select **Time**.  
Press the **ENTER** (  ) button.  
Result: The **Clock Set** is selected.
- 5 Press the **ENTER** (  ) button again.
- 6 Press the **◀** or **▶** button to select **Hour** or **Minute**.  
Set these by pressing the **▲** or **▼** button.  
➤ You can set the hour and minute directly by pressing the numeric buttons on the remote control.
- 7 When you are satisfied with your setting, press the **ENTER** (  ) button.
- 8 Press the **EXIT** button to exit.

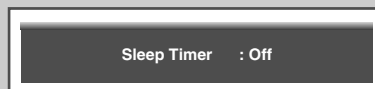
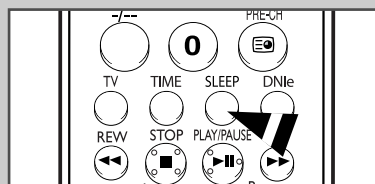
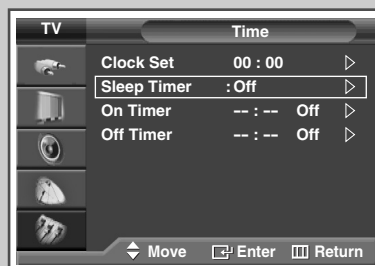
➤ In the event of a power interruption or the set being turned off at the supply, the settings for the Clock will be lost.

## Setting the Sleep Timer

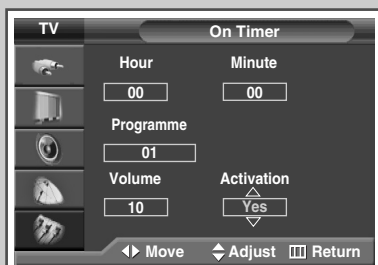
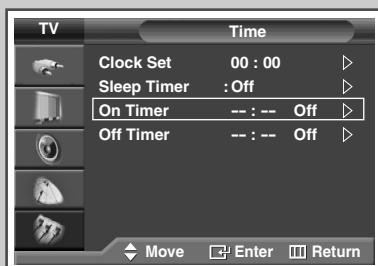
*You can select a time period of between 30 and 180 minutes after which the television automatically switches to Standby mode.*

- 1 Press the **MENU** (  ) button.  
Result: The main menu is displayed.
- 2 Press the **▲** or **▼** button to select **Setup**.  
Result: The **Setup** menu is displayed.
- 3 Press the **ENTER** (  ) button.
- 4 Press the **▲** or **▼** button to select **Time**.  
Press the **ENTER** (  ) button.  
Result: The **Time** menu is displayed.
- 5 Press the **▲** or **▼** button to select **Sleep Timer**.  
Press the **ENTER** (  ) button.
- 6 Select the preset time interval (**Off**, **30**, **60**, **90**, **120**, **150**, or **180**) for staying on by pressing the **▲** or **▼** button.  
Press the **ENTER** (  ) button.
- 7 Press the **EXIT** button to exit.

- ◆ You can select these options simply by pressing the **SLEEP** button on the remote control.
- ◆ If the sleep timer is not yet set, **Off** is displayed.  
If the sleep timer is already set, the remaining time before which the television switches to standby mode is displayed.



## Switching the Television On and Off Automatically



*You can set the on or off timers so that the television will:*

- ◆ *Switch on automatically and tune to the channel of your choice at the time you select.*
- ◆ *Switch off automatically at the time you select.*

➤ The first step is to set the television's clock (refer to "Setting and Displaying the Current Time" on page 46).

1 Press the **MENU** ( ) button.

Result: The main menu is displayed.

2 Press the **▲** or **▼** button to select **Setup**.

Result: The **Setup** menu is displayed.

3 Press the **ENTER** ( ) button.

4 Press the **▲** or **▼** button to select **Time**.  
Press the **ENTER** ( ) button.

Result: The **Time** menu is displayed.

5 Press the **▲** or **▼** button to select **On Timer**.  
Press the **ENTER** ( ) button.

Result: The **On Timer** menu is displayed.

6 Select **Hour**, **Minute**, **Programme**, or **Volume** by pressing the **◀** or **▶** button.  
Set these by pressing the **▲** or **▼** button.

➤ You can set the hour and minute directly by pressing the numeric buttons on the remote control.

7 Press the **◀** or **▶** button to select **Activation**.

8 To activate **On Timer** with the setting entered, select **Yes** by pressing the **▲** or **▼** button.

9 Press the **ENTER** ( ) button.

Result: The **Time** menu is displayed again.

continued...

- 10 Press the ▲ or ▼ button to select **Off Timer**.  
Press the **ENTER** (⏏) button.

Result: The **Off Timer** menu is displayed.

- 11 Select **Hour** or **Minute** by pressing the ◀ or ▶ button.  
Set these by pressing the ▲ or ▼ button.

➤ You can set the hour and minute directly by pressing the numeric buttons on the remote control.

- 12 Press the ◀ or ▶ button to select **Activation**.

- 13 To activate **Off Timer** with the setting entered, select **Yes** by pressing the ▲ or ▼ button.

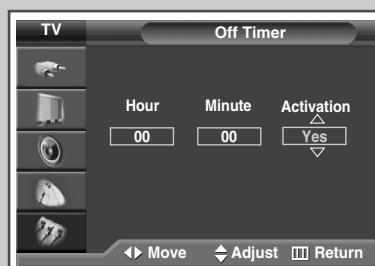
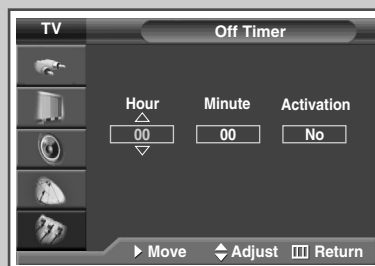
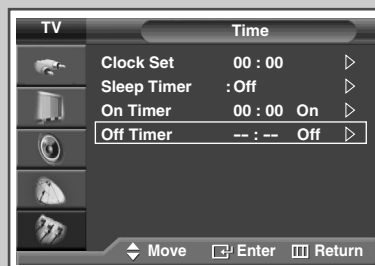
- 14 When you are satisfied with your setting, press the **ENTER** (⏏) button.

- 15 Press the **EXIT** button to exit.

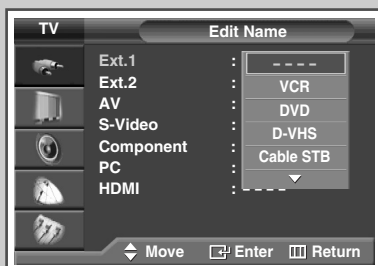
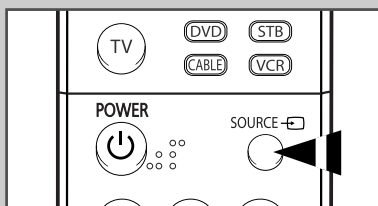
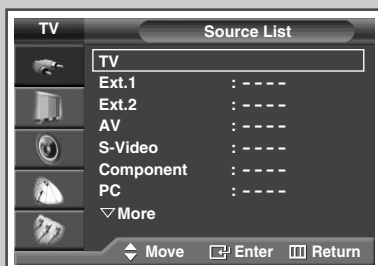
➤ **Auto Power Off**

When you set the timer "On", the television will eventually turn off, if no controls are operated for 3 hours after the TV was turned on by timer. This function is only available in timer "On" mode and prevents overheating, which may occur if a TV is on for too long.

- If no signal is received for 15 minutes, the TV will be automatically turned off.



## Viewing an External Signal Source



*Use the remote control to switch between viewing signal from connected equipment, such as VCR, DVD, Set-Top box, and the TV source (broadcast or cable).*

- 1 Press the **MENU** ( ) button.  
Result: The main menu is displayed.
- 2 Press the **ENTER** ( ) button to select **Input**.  
Result: The **Input** menu is displayed.
- 3 Press the **ENTER** ( ) button.  
Result: The **Source List** is selected.
- 4 Press the **▲** or **▼** button to select the signal source, press the **ENTER** ( ) button.  
Result: The available signal sources are listed.
  - ♦ **TV, Ext.1, Ext.2, Component, PC, or HDMI** : on the TV's rear panel.
  - ♦ **AV, S-Video** : on the TV's side panel.
  - ♦ You can also set these options simply by pressing the **SOURCE** ( ) button on the remote control.
  - ♦ Only connected devices can be selected
- 5 Press the **MENU** ( ) button.  
Result: The main menu is displayed.
- 6 Press the **ENTER** ( ) button to select **Input**.  
Result: The **Input** menu is displayed again.
- 7 Press the **▲** or **▼** button to select **Edit Name**. Press the **ENTER** ( ) button.
- 8 Press the **▲** or **▼** button to select external source to be edited. Press the **ENTER** ( ) button.  
Result: The available device names are listed.
 

**VCR, DVD, D-VHS, Cable STB, HD STB, Satellite STB, AV Receiver, DVD Receiver, Game, Camcorder, DVD Combo, DHR (DVD HDD Recorder), or PC**
- 9 Select the required device by pressing the **▲** or **▼** button. Press the **ENTER** ( ) button.
- 10 Press the **EXIT** button to exit.

➤ If you change the external source while viewing, pictures might take a short period of time to switch.

## Teletext Feature

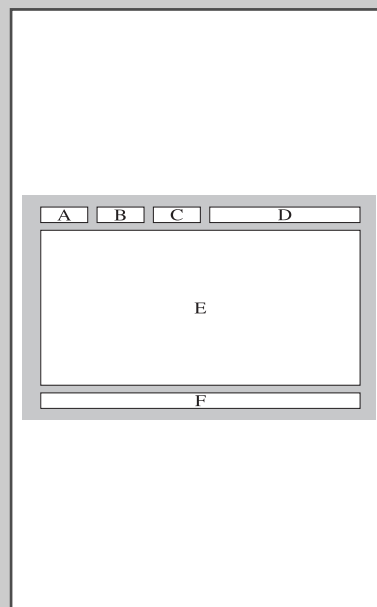
*Most television channels provide written information services via teletext. Information provided includes:*

- ◆ *Television programme times*
- ◆ *News bulletins and weather forecasts*
- ◆ *Sports results*
- ◆ *Travel information*

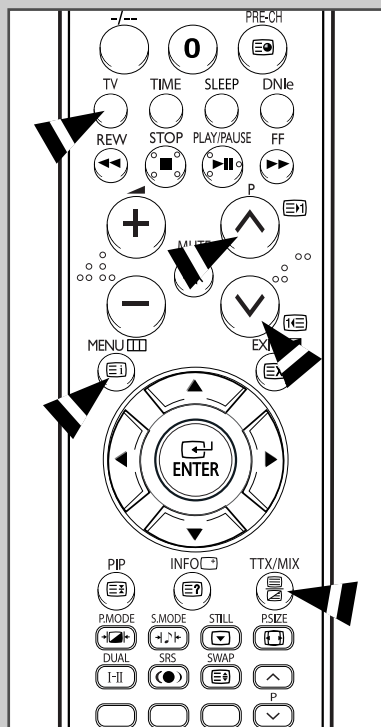
*The teletext pages are organized according to six categories:*

Part	Contents
A	Selected page number.
B	Broadcasting channel identity.
C	Current page number or search indications.
D	Date and time.
E	Text.
F	Status information. FASTEXT information.

- Teletext information is often divided between several pages displayed in sequence, which can be accessed by:
- ◆ Entering the page number
  - ◆ Selecting a title in a list
  - ◆ Selecting a coloured heading (FASTEXT system)



## Displaying the Teletext Information



*You can display Teletext information at any time on your television.*

☞ For Teletext information to be displayed correctly, channel reception must be stable; otherwise:

- ◆ Information may be missing
- ◆ Some pages may not be displayed

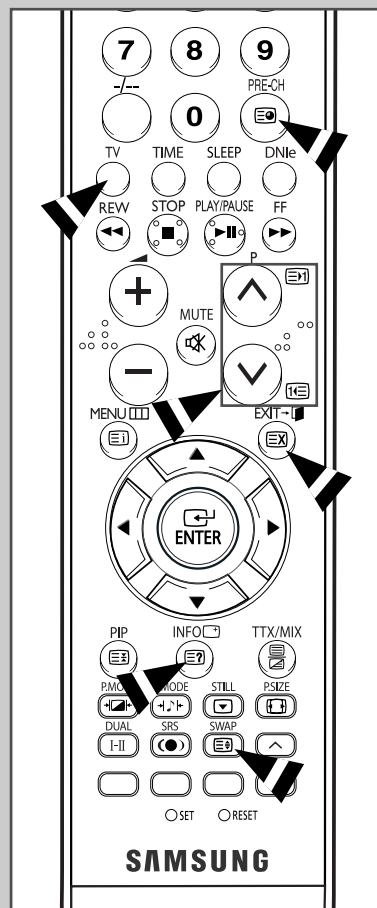
- 1 Select the channel providing the Teletext service by pressing the **P** (▲) or (▼) button.
- 2 Press the **TTX/MIX** (≡☒) button to activate the teletext mode.  
Result: The contents page is displayed. It can be redisplayed at any time by pressing the ≡☒ (index) button.
- 3 Press the **TTX/MIX** (≡☒) button again.  
Result: The screen will be split into two. This Double Teletext feature lets you view the actual broadcast and teletext information separately on the screen.
- 4 If you wish to display the actual broadcast and teletext information on a single screen, press the **TTX/MIX** (≡☒) button again.
- 5 To exit from the teletext display, press the **TV** button.

## Selecting Display Options

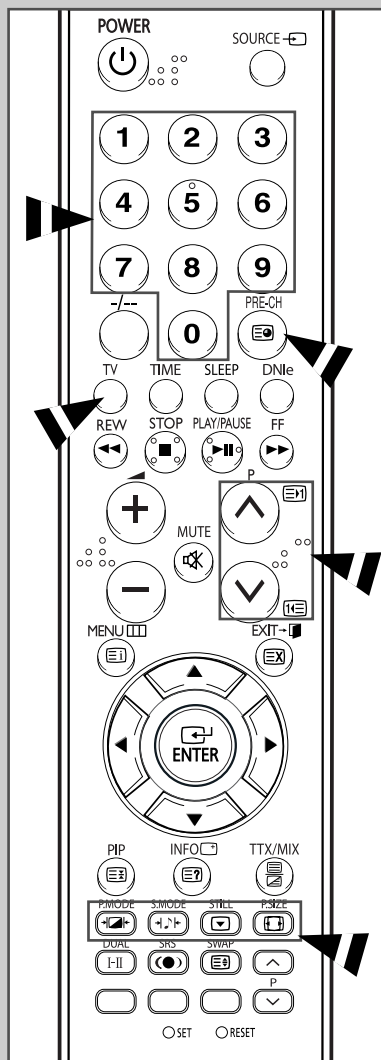
*When you have displayed a Teletext page, you can select various options to suit your requirements.*

To display...	Press the...
◆ Hidden text (answers to quiz games, for example)	[REVEAL] (reveal)
◆ The normal screen	[REVEAL] (reveal) again
◆ A secondary page	[SUB-PAGE] (sub-page)
◆ The broadcast when searching for a page	[CANCEL] (cancel)
◆ The next page	[PAGE UP] (page up)
◆ The previous page	[PAGE DOWN] (page down)
◆ Double-size letters in the: • Upper half of the screen • Lower half of the screen	[SIZE] (size) • Once • Twice
◆ Normal screen	• Three times

➤ To return to the normal display after using the reveal or size feature, press the **TV** button.



## Selecting a Teletext Page



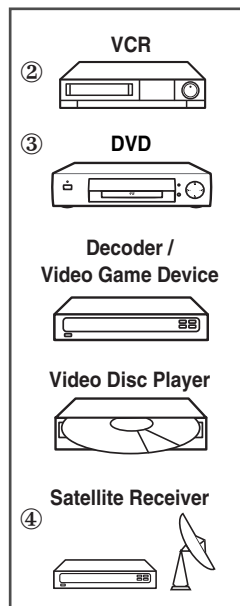
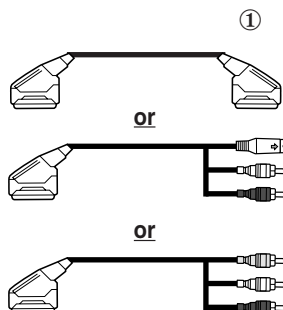
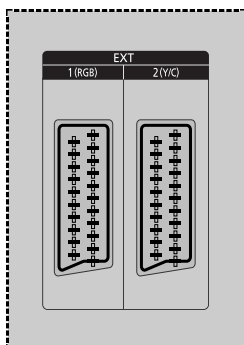
*You can enter the page number directly by pressing the numeric buttons on the remote control.*

- 1 Enter the three-digit page number given in the content by pressing the corresponding numeric buttons.  
Result: The current page counter is incremented and the page is then displayed. If the selected page is linked with several secondary pages, the secondary pages are displayed in sequence. To freeze the display on a given page, press the (hold) button. Press it again to resume.
- 2 If the FASTEXT system is used by a broadcasting company, the different topics covered on a Teletext page are colour-coded and can be selected by pressing the coloured buttons on the remote control.  
 Press the coloured button corresponding to the topic that you wish to select; the available topics are given in the status line.  
Result: The page is displayed with other coloured information that can be selected in the same way.
- 3 To display the previous or next page, press the corresponding coloured button.
- 4 To display the sub-page, see the following steps.
  - ◆ Press the (sub-page) button.  
Result: The available sub-pages appear.
  - ◆ Select the required sub-page. Sub-pages can be scrolled by pressing the or button.
- 5 When you have finished, press the **TV** button to return to your normal broadcast.

## Connecting to the External Input/Output

“EXT 1” is used for the equipment with an RGB output, such as video game consoles or Cable/Satellite sources

### Rear of the TV



- ① This end can be fitted with:
  - ◆ A SCART connector
  - ◆ An S-Video connector and two audio RCA connectors (L+R); **EXT 2**
  - ◆ Three RCA connectors (VIDEO + AUDIO-L and R)
- ② If you have a second VCR and wish to copy cassette tapes, connect the source VCR to **EXT 1** and the target VCR to **EXT 2** so that you can redirect the signal from **EXT 1** to **EXT 2**.
- ③ If you have a decoder, connect the decoder to the VCR and the VCR to the television.
- ④ When you wish to record a programme, connect the receiver to **EXT 1** and the VCR to **EXT 2** so that you can redirect the signal from **EXT 1** to **EXT 2**.

➤ Please be sure to match the colour coded input terminals and cable jacks.

### Input/Output Specification

Connector	Input				Output
	Video	Audio (L/R)	S-Video	RGB	Video + Audio (L/R)
<b>EXT 1</b>	✓	✓		✓	Only TV output is available.
<b>EXT 2</b>	✓	✓	✓		Monitor output



Whenever you connect an audio or video system to your television, ensure that all elements are switched off.

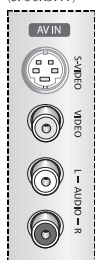
Refer to the documentation supplied with your equipment for detailed connection instructions and associated safety precautions.

## Connecting to the RCA Input

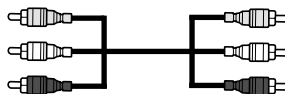
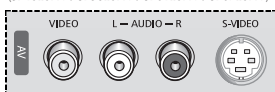
- The RCA (**VIDEO + AUDIO L/R**) connectors are used for equipment, such as camcorders, video disc players, and some video game devices.

### *Side of the TV*

(SP56K3HV)



(SP46L6HV / SP50L6HV / SP61L6HV / SP67L6HV)



#### Camcorder



#### Video game device



#### Video disc player



- Please be sure to match the colour coded input terminals and cable jacks.

## Connecting to the S-Video Input

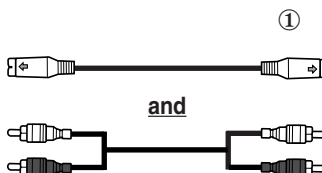
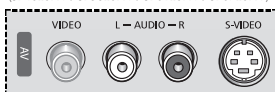
- The **S-VIDEO** and **AUDIO L/R** connectors are used for equipment with an S-Video output, such as a camcorder or VCR.

### *Side of the TV*

(SP56K3HV)



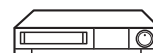
(SP46L6HV / SP50L6HV / SP61L6HV / SP67L6HV)



#### Camcorder



#### VCR



- ① To play pictures and sound, both the **S-VIDEO** and **AUDIO L/R** connectors must be used.

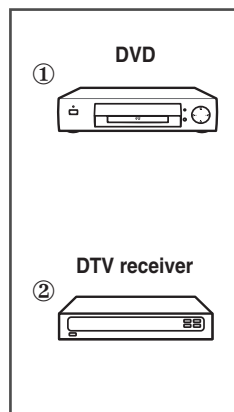
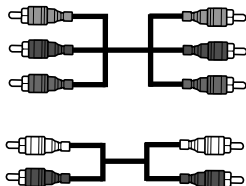
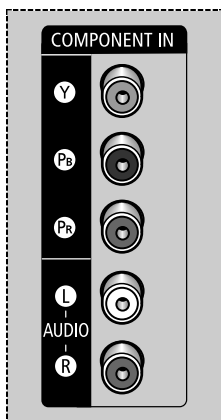
- Please be sure to match the colour coded input terminals and cable jacks.



Whenever you connect an audio or video system to your television, ensure that all elements are switched off. Refer to the documentation supplied with your equipment for detailed connection instructions and associated safety precautions.

## Connecting to the Component Input

### *Rear of the TV*



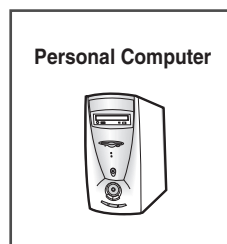
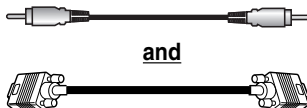
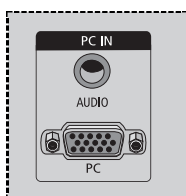
- ① The **COMPONENT IN** connectors are used for equipment with a DVD or DTV receiver output. (480i, 480p, 576i, 576p, 720p, 1080i)

➤ Please be sure to match the colour coded input terminals and cable jacks.

## Connecting to the PC Input

- The **PC IN** (video) and **AUDIO** connectors are used for interfacing with your PC.

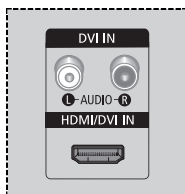
### *Rear of the TV*



## Connecting to the HDMI (High Definition Multimedia Interface) Input

- The **HDMI/DVI IN** connector is used for equipment with an HDMI out.

### Rear of the TV



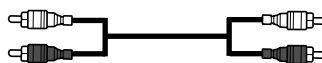
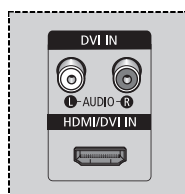
### DTV Set-Top Box



## Connecting to the HDMI/DVI Compatible

- The **HDMI/DVI IN** connector is used for equipment with a DVI out.

### Rear of the TV

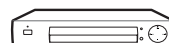


and

(HDMI/DVI cable)



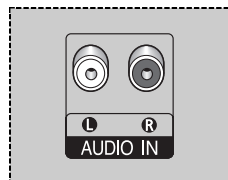
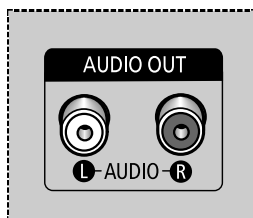
### DTV Set-Top Box



# Connecting Home Theater System

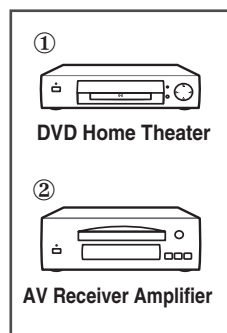
Use the **AUDIO OUT** ports of the TV for Home Theater System Connections.

## Rear of the TV



## Connecting the Home Theater System

- ① Connect the monitoring audio out L and R jacks of the **AUDIO OUT** on the rear-side connection panel of the TV to the AUDIO IN jacks of the DVD Home Theater System (or AV Receiver) using the audio cable.
- ② Press the **SOURCE** ( ) button to select the desired external device connected to the TV.
- ③ If you want to hear the sound through separate speakers, cancel the internal amplifier.



➤ Please be sure to match the colour coded input terminals and cable jacks.

- ◆ Refer to corresponding user's manual from the manufacturer for wiring the speakers to the DVD Home Theater System (or AV Receiver).
- ◆ Disable the TV internal speaker to enjoy the rich sound through the speakers of your Home Theater System.

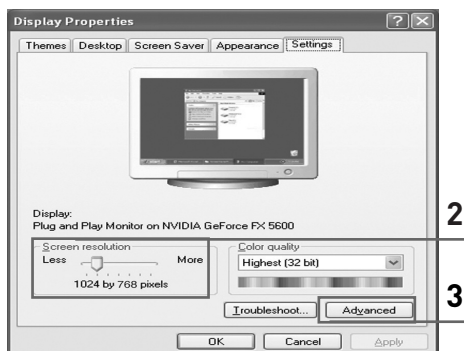
## To Display the DVD Home Theater

- ① Turn the TV on and press the **SOURCE** ( ) button to select the **Ext.1**, **Ext.2** or **Component**.
- ② Be sure to connect the video cable properly if desired external input (**Ext.1**, **Ext.2** or **Component**) cannot be selected.
- ③ Play the DVD after activating the DVD Home Theater System.
- ④ Use the volume control of the Home Theater System while watching the TV using the DVD Home Theater, where the TV does not produce the audio.

	Internal Speakers			Audio Out (L/R Out)		
	TV	AV, S-Video	Component, PC, HDMI	TV	AV, S-Video	Component, PC, HDMI
Internal Mute Off	Speaker Output	Speaker Output	Speaker Output	Sound Output	Sound Output	Mute
Internal Mute On	Mute	Mute	Mute	Sound Output	Sound Output	Sound Output
Video No Signal	Mute	Mute	Mute	Mute	Mute	Mute

## Setting up Your PC Software (Windows only)

*The Windows display-settings for a typical computer are shown below. But the actual screens on your PC will probably be different, depending upon your particular version of Windows and your particular video card. But even if your actual screens look different, the same, basic set-up information will apply in almost all cases. (If not, contact your computer manufacturer or Samsung Dealer.)*



- 1 Right click the mouse on the Windows Desktop, then click on **Properties**.  
The **Display Properties** will be displayed.

- 2 Click on **Settings** tab, then set the Display Mode with reference to the Display Modes Table. You do not need to change the Colours settings.

- 3 Click on **Advanced**. A new settings dialog box will be displayed.

- 4 Click on the **Monitor** tab, then set the **Screen refresh rate** with reference to the Display Modes Table. Set the Vertical Frequency and Horizontal Frequency individually if you can do so instead of setting the **Screen refresh rate**.

- 5 Click on **OK** to close the window, then Click on **OK** button to the **Display Properties** window. Automatic re-booting may commence at this moment.

- 6 Shutdown the PC, and connect it to your TV. ("Connecting to the PC Input" on page 57)

- ♦ The actual screens on your PC may look different, depending on your particular version of Windows and the type of your PC.
- ♦ When you use your TV as a PC monitor, it supports Colours up to 32 bits.
- ♦ In this case, the display on the TV may look different depending on your particular version of Windows or the PC manufacturer.
- ♦ When connecting a PC you must set it to the display settings that are supported by the TV. Otherwise, the message **Out of input range** will be displayed.


## PC Input Mode

Both screen position and size will vary depending on the type of PC monitor and its resolution. The table below shows all of the display modes that are supported:

Standard	Resolution	Horizontal frequency (kHz)	Vertical frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (H/V)
VGA	720 x 400 640 x 480	31.47	70.00	28.322	-/-
		31.47	60.00	25.175	-/+
		35.00	66.70	30.24	-/-
		37.86	72.80	31.50	-/-
		37.50	75.00	31.50	-/-
		43.27	85.00	36.00	-/-
SVGA	800 x 600	35.16	56.30	36.00	-+/-
		37.88	60.30	40.00	+/-+
		48.08	72.20	50.00	+/+
		46.87	75.00	49.50	+/+
		53.67	85.10	56.25	+/+
	832 x 624	49.73	74.60	57.284	-/+
XGA	1024 x 768	48.36	60.00	65.00	-/-
		56.40	70.10	75.00	-/-
		57.80	72.00	74.99	-/-
		60.02	75.00	78.75	+/-
SXGA	1280 x 720	44.70	59.80	74.50	-/+

- ◆ The interlace mode is not supported.

### Notes

- ◆ 1280 x 720 mode is 16:9 mode.
- ◆ When this television is used as a PC display, 24-bit colour is supported (over 16 million colours).
- ◆ Your PC display screen might appear different depending on the manufacturer (and your particular version of Windows). Check your PC instruction book for information about connecting your PC to a television.
- ◆ If a vertical and horizontal frequency-select mode exists, select 60Hz (vertical) and 31.5kHz (horizontal). In some cases, abnormal signals (such as stripes) might appear on the screen when the PC power is turned off (or if the PC is disconnected). If so, press the **SOURCE** (  ) button to enter the Video mode. Also, make sure that the PC is connected.
- ◆ When connecting a notebook PC to the television, make sure that the PC screen is displayed through only the television (Otherwise, random signals might appear). It depends on the note PC model.
- ◆ When horizontal synchronous signals seem irregular in PC mode, check PC power saving mode or cable connections.

## Setting Up Your Remote Control

*After it has been set up properly, your remote control can operate in five different modes: TV, VCR, Cable, DVD, or Set-Top Box. Pressing the corresponding button on the remote control allows you to switch between these modes, and control whichever piece of equipment you choose.*

- *The remote control might not be compatible with all DVD Players, VCRs, Cable boxes, and Set-Top Boxes.*

### Setting Up the Remote to Operate Your VCR

- 1 Turn off your VCR.
- 2 Press the **VCR** button on your TV's remote control.
- 3 Press the **SET** button on your TV's remote control.
- 4 Using the number buttons on your remote control, enter three digits of the VCR code listed on page 64 of this manual for your brand of VCR. Make sure you enter three digits of the code, even if the first digit is a "0". (If more than one code is listed, try the first one.)
- 5 Press the **POWER** button on the remote control. Your VCR should turn on if your remote is set up correctly. If your VCR does not turn on after set-up, repeat steps 2, 3 and 4, but try one of the other codes listed for your brand of VCR. If no other codes are listed, try each VCR code, 000 through 080.

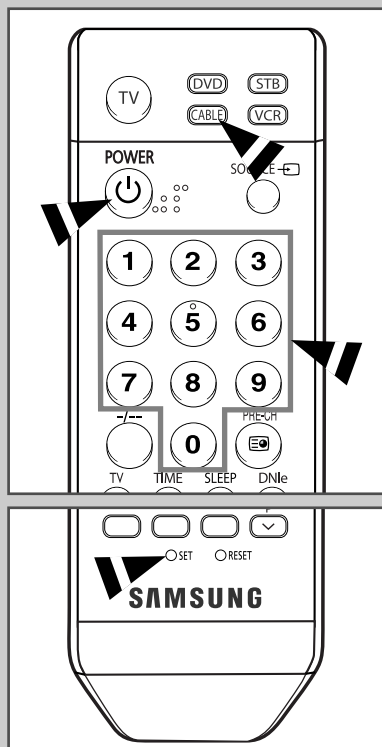
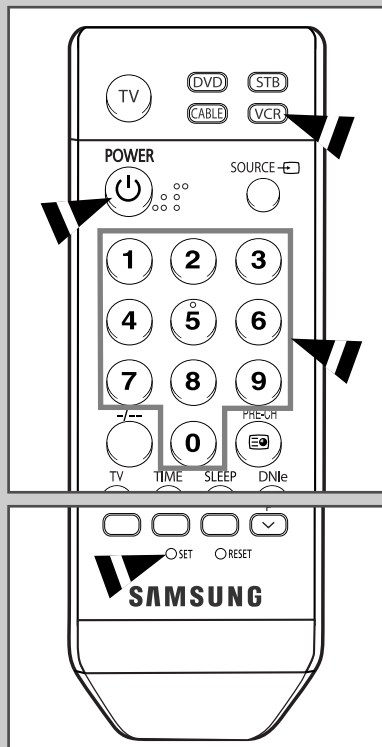
- ♦ Note on Using Remote Control Modes: VCR
- ♦ When your remote control is in "VCR" mode, the volume buttons still control your TV's volume.

### Setting Up the Remote to Operate Your Cable Box

- 1 Turn off your cable box.
- 2 Press the **CABLE** button on your TV's remote control.
- 3 Press the **SET** button on your TV's remote control.
- 4 Using the number buttons on your remote control, enter three digits of the cable box code listed on page 65 of this manual for your brand of cable box. Make sure you enter three digits of the code, even if the first digit is a "0". (If more than one code is listed, try the first one.)
- 5 Press the **POWER** button on the remote control. Your cable box should turn on if your remote is set up correctly. If your cable box does not turn on after set-up, repeat steps 2, 3 and 4, but try one of the other codes listed for your brand of cable box. If no other codes are listed, try each code, 000 through 046.

- ♦ Note on Using Remote Control Modes: Cable Box
- ♦ When your remote control is in "CABLE" mode, the volume buttons still control your TV's volume.

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### Setting Up the Remote to Operate Your DVD

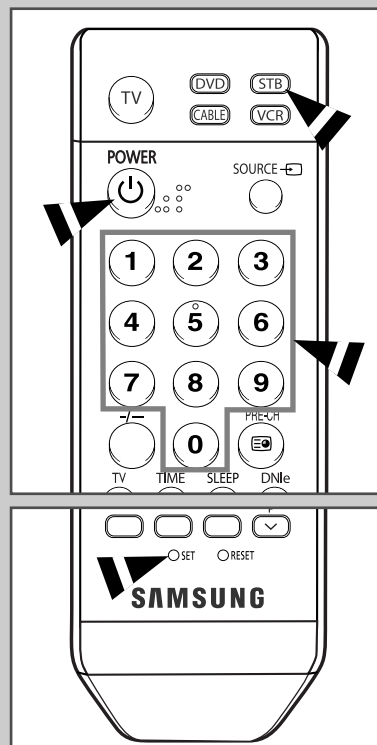
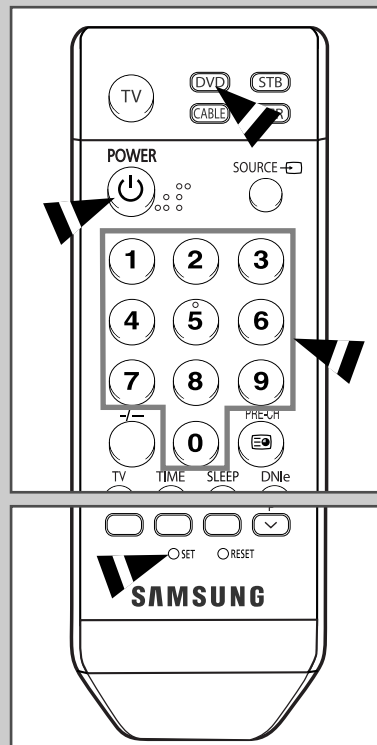
- 1 Turn off your DVD.
- 2 Press the **DVD** button on your TV's remote control.
- 3 Press the **SET** button on your TV's remote control.
- 4 Using the number buttons on your remote control, enter three digits of the DVD code listed on page 66 of this manual for your brand of DVD. Make sure you enter three digits of the code, even if the first digit is a "0". (If more than one code is listed, try the first one.)
- 5 Press the **POWER** button on the remote control. Your DVD should turn on if your remote is set up correctly. If your DVD does not turn on after set-up, repeat steps 2, 3 and 4, but try one of the other codes listed for your brand of DVD. If no other codes are listed, try each code, 000 through 141.

- ♦ Note on Using Remote Control Modes: DVD
- ♦ When your remote control is in "DVD" mode, the volume buttons still control your TV's volume.

### Setting Up the Remote to Operate Your Set Top Box

- 1 Turn off your STB.
- 2 Press the **STB** button on your TV's remote control.
- 3 Press the **SET** button on your TV's remote control.
- 4 Using the number buttons on your remote control, enter three digits of the STB code listed on page 65 of this manual for your brand of STB. Make sure you enter three digits of the code, even if the first digit is a "0". (If more than one code is listed, try the first one.)
- 5 Press the **POWER** button on the remote control. Your STB should turn on if your remote is set up correctly. If your STB does not turn on after set-up, repeat steps 2, 3 and 4, but try one of the other codes listed for your brand of STB. If no other codes are listed, try each code, 000 through 074.

- ♦ Note on Using Remote Control Modes: STB
- ♦ When your remote control is in "STB" mode, the volume buttons still control your TV's volume.



# Remote Control Codes

## VCR

Brand	Code
SAMSUNG	000 001 002 003 004 005 077 078 079
ADMIRAL	020
AIWA	025
AKAI	004 027 032
AUDIO DYNAMICS	007 026
BELL&HOWELL	018
BROKSONIC	022
CANDLE	002 003 006 008 015 055
CANON	021 056
CITIZEN	002 003 006 008 015 055
COLORTYME	007
CRAIG	002 024
CURTIS MATHES	002 007 008 017 021 025 056 064 066
DAEWOO	003 010 011 012 013 014 015 016
DB	007 026
DIMENSIA	017
DYNATECH	025
ELECTROHOME	034
EMERSON	001 003 006 021 022 025 030 032 034 040 047 050 052 060 063 065 066 067 069 073
FISHER	018 024 028 029 048 051 061
FUNAI	025
GENERAL ELECTRIC	002 005 017 021 056
GO VIDEO	002
LG(Goldstar)	006 007 008 009 010
HARIMAN KARDON	007
HITACHI	019 025 041 042 074
INSTANT REPLAY	021
JC PENNEY	002 007 018 019 021 026 037 041 054 056
JCL	007 008 018 021 026 037
KENWOOD	007 008 018 026 037
KLH	070
LJOYD	025
LOGIK	038
LXI	025
JVC	081 082 083
MAGNAVOX	021 056 059
MARANTZ	007 008 018 021 026 037 062
MARTA	006
KONIA	036
ORION	073 074 075 076
MEI	021
MEMOREX	006 021 024 025
MGA	034
MIDLAND	005
MINOLTA	019 041 075

Brand	Code
MITSUBISHI	019 034 041 046
MONTGOMERY WARD	020
MTC	002 025
MULTITECH	002 005 025 038
NEC	007 008 018 026 037 062 064
OPTIMUS	020
PANASONIC	021 056 071 072
PENTAX	019 041 075
PENTEX RESEARCH+	008
PHILCO	021 056 059
PHILIPS	021 080
PIONEER	019 026 039 053
PORTLAND	015 049 055
PROSCAN	017
QUARTZ	018
QUASAR	021 056
RADIO SHACK/REALISTIC	006 018 020 021 024 025 029 034 048 056
RCA	002 017 019 021 035 041 043 057 068 076
SANSUI	026
SANYO	018 024
SCOTT	003 047 052 067
SEARS	006 018 019 024 028 029 041 048 051
SHARP	020 034 045 015
SHIMTOM	027 033 038 058
SIGNATURE	025
SONY	027 033 044
SYLVANIA	021 025 056 059
SYMPHONIC	025
TANDY	018 025
TASHIKA	006
TATUNG	037
TEAC	025 037 068
TECHNICS	021
TEKNIKA	006 021 025 031
TMK	066
TOSHIBA	003 019 029 051 052
TOTEVISION	002 006
UNITECH	002
VECTOR RESEARCH	007 026
VICTOR	026
VIDEO CONCEPTS	007 026
VIDEOSONIC	002
WARDS	002 003 006 019 020 021 024 025 034 038 041
YAMAHA	007 008 018 026 037
ZENITH	023 027 033

continued...

## CABLE BOX

Brand	Code
SAMSUNG	000 001 002 003 004 005 006 007
GI	041
HAMLIN	003 024 031
HITACHI	025 030
JERROLD	038 039
MACOM	025 030
MAGNAVOX	019 023 028
OAK	026
PANASONIC	003 022 027 037 044
PHILIPS	019 021 023 028
PIONEER	004 018 020 044
RCA	014 022 040
REGAL	003

Brand	Code
REGENCY	015 023
SA	042 043
SCIENTIFIC ATLAN	042 043
SPRUCER	022
STARGATE 2000	036
SYLVANIA	016
TEXSCAN	016
TOCOM	032
UNIVERSAL	033 034
VIEWSTAR	019 021 023 028
WAMER AMEX	046
ZENITH	017 029 035 037 045

## SAMSUNG SET-TOP BOX

Product	Code
Ground wave STB	001 002
Satellite STB	003
CABLE STB	004
STB DVD COMBO	008
Satellite STB HDD COMBO Standard	009

Product	Code
Satellite STB HDD COMBO Premium	010
CABLE STB HDD COMBO Standard	011
CABLE STB HDD COMBO Premium	012
Ground wave STB HDD COMBO Standard	013
Ground wave STB HDD COMBO Premium	014

## SET-TOP BOX

Brand	Code
ALPHASTAR	023
ANAM	043
CHANNEL MASTER	018 034
CROSSDIGITAL	019
CHAPARRAL	035
DIRECT TV	015 016 017 019 022 045 060 061 062 065 066 067 068
DAEWOO	074
DISH NETWORK SYSTEM	069 070
DISHPRO	069
DRAKE	018 024 032
DX ANTENNA	027
ECHOSTAR	025 069 070 071
EXPRESSVU	069
GOI	069
GE	065
GENERAL INSTRUMENT	046 047 048 063 064
HTS	069
HOME CABLE	056
HITACHI	022
HUGHES NETWORK	015 017
IQ	020
IQ PRISM	020
JANEIL	059
JERROLD	063
JVC	069 070

Brand	Code
LG(Goldstar)	044 073
MAGNAVOX	016 021 036 038 039 040 041 042
MEMOREX	016
MOTOROLA	064
MACOM	018
MITSUBISHI	015
NEXT LEVEL	047 048 064
PHILIPS	015 016 017 021 033 036 038 039 040 041 042 067
PRIMESTAR	046 049 050 063
PANASONIC	058 059 061 062
PAYSAT	016
PROSCAN	065 066
RCA	051 052 053 065 066
RADIOSHACK	064
REALISTIC	057
STS	020 027
STAR TRAK	026
SKY	031
SKY LIFE	005 006 007
SHACK	064
STAR CHOICE	064
SONY	054 060
TOSHIBA	015 017 028 029 030 072
ULTIMATE TV	060 066
UNIDEN	016 021 037 055 056 057
ZENITH	024 031 068

continued...

## SAMSUNG DVD

Product	Code
DVD	000 001 002
DVDR	003 004
BD Record	005 006
VCR COMBO	007 008 009 010 011
VCR Record	012
DHR COMBO	013

Product	Code
Home Theater VCR COMBO	014 015 016
HDD Record COMBO	017
TWIN TRAY COMBO	018
STB DVD COMBO	019
DVD Receiver	020
AV Receiver	021

## DVD

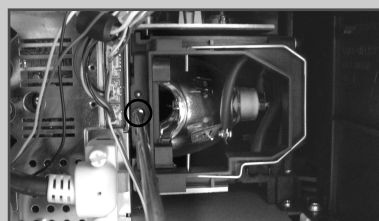
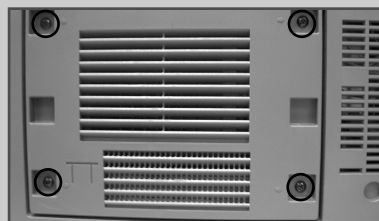
Brand	Code
ANAM	030
AUDIOVOX	075
AUDIOLOGIC	085
ANABA	072
APEX DIGITAL	070 071 074 086 083 084 088 111 112
AIWA	114
BROKSONIC	062
BLAUPUNKT	074
B&K	122 123
CURTIS MATHES	027
CYBER HOME	065 077 078 079 082
CLARION	080 125
CIRRUS	081
CINEVISION	095
DAEWOO	066
DENON	146
FARENGHEIT	067 068
FISHER	090
GPX	060
GO VIDEO	061 089 133 135
GE	069 074
GREENHILL	074
HITACHI	064 113
HITEKER	071
HOYO	073
HARMAN / KARDON	091 110
IRT	089
INTEGRA	092
JBL	091
JVC	022 033 115 116
JATON	073
KENWOOD	051 108 109
KISS	073
KONKA	059 100 106 107
KLH	074 075
LG(Goldstar)	025 031
LOEWE	057
LASONIC	058
MOBILE AUTHORITY	054
MEMOREX	055
MALATA	056
MAGNAVOX	076 093
MINTEK	074 094
MONYKA	073

Brand	Code
NORCENT	048 049 050
NEXT BASE	052
NEC	053
NANTAUUS	144
NESA	074
OPTOMEDIA ELECTRONICS	105
OPTIVIEW	072
ONKYO	076 092 119
PHILCO	044 045
PRINCETON	046 047
PROSCAN	023
PANASONIC	024 034 124 134 136 137 138
PHILIPS	036 076
ROTEL	117 118
RIO	120
RCA	023 035 074 075 131 132
RAITE	073
ROWA	038
SAMPO	104
SONY	026 029 126 127 128 129 130 141
SHERWOOD	039 041
SVA	042
SYLVANIA	043 093
SHARP	140
SANSUI	062
SANYO	062
SHINSONIC	094
SANYO	090
THOMSON	145
TOSHIBA	028 062 076
TECHNICS	139
TVIEW	072
TOKAI	073
TEAC	096
TECHWOOD	097
TREDEX	098 099 101
URBAN CONCEPTS	076
VENTURER	075
VOCOPRO	102
YAMAHA	032 063
YAMAKAWA	040 073
XWAVE	103
ZENITH	076 121

## Replacing the Lamp

- 1 Unplug TV, then use a screwdriver to remove the screw.
- 2 Remove the Lamp cover.
- 3 Remove the Lamp cover duct holding the locker and pulling it out.
- 4 Remove the screw securing the Lamp by using a screwdriver.
- 5 Separate the Lamp from the engine by holding the handle and pulling it out.
- 6 To reinstall the Lamp, follow these steps in reverse order.

- ◆ Why do I need to replace the lamp?  
The lamp used in a projection TV has a limited lifespan. For the best screen quality it needs to be replaced periodically. After replacing the lamp, the screen quality will be bright and clear as new.
- ◆ When do I need to replace it?  
It should be replaced when the screen becomes darker, less clear or when all three LEDs on the front (TIMER, LAMP and STAND BY/TEMP) are flashing.
- ◆ Check before lamp replacement
  - Turn the power off and wait for 30 minutes before replacing the lamp as it will be hot.
  - The lamp must be the same code to avoid damage to the TV. The lamp code is indicated on the lamp case or the side of TV.
  - After checking the lamp code, give to the store where you purchased the TV or to a Samsung Service Center.
- ◆ Caution
  - Do not touch the glass part of the lamp with your bare hands nor insert any foreign object inside the cover as it may cause poor screen quality, electric shock or fire.
  - Do not place the old lamp near flammable objects or within the reach of children.
  - Don't allow dirt or dust to accumulate inside the lamp cover or on the lamp. A dirty cover or lamp can catch fire, explode and cause electric shock.
  - If a new lamp is improperly handled, the screen quality can be affected and the expected lifespan of the lamp can be reduced.
  - Be sure to tighten the lamp cover on the TV after changing the lamp. Note that the TV will not function if the lamp cover is not securely attached. Please tighten the holding screw on the lamp cover after it has been attached to the TV.



## Troubleshooting: Before Contacting Service Personnel

*Before contacting Samsung after-sales service, perform the following simple checks.*

*If you cannot solve the problem using the instructions below, note the model and serial number of the television and contact your local dealer.*

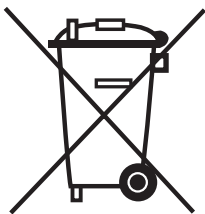
No sound or picture	<ul style="list-style-type: none"> <li>◆ Check that the mains lead has been connected to a wall socket.</li> <li>◆ Check that you have pressed the power button (On/Off) and the <b>POWER</b> (⏻) button.</li> <li>◆ Check the picture contrast and brightness settings.</li> <li>◆ Check the volume.</li> <li>◆ Check if Internal Mute is set to ON.</li> </ul>
Normal picture but no sound	<ul style="list-style-type: none"> <li>◆ Check the volume.</li> <li>◆ Check whether the volume <b>MUTE</b> (🔇) button on the remote control has been pressed.</li> </ul>
No picture or black and white picture	<ul style="list-style-type: none"> <li>◆ Adjust the colour settings.</li> <li>◆ Check that the broadcast system selected is correct.</li> </ul>
Sound and picture interference	<ul style="list-style-type: none"> <li>◆ Try to identify the electrical appliance that is affecting the television, then move it further away.</li> <li>◆ Plug your television into a different mains socket.</li> </ul>
Blurred or snowy picture, distorted sound	<ul style="list-style-type: none"> <li>◆ Check the direction, location and connections of your aerial. This interference often occurs due to the use of an indoor aerial.</li> </ul>
Remote control malfunctions	<ul style="list-style-type: none"> <li>◆ Replace the remote control batteries.</li> <li>◆ Clean the upper edge of the remote control (transmission window).</li> <li>◆ Check the battery terminals.</li> </ul>
Screen is black and power indicator light blinks steadily	<ul style="list-style-type: none"> <li>◆ On your computer check; Power, Signal Cable.</li> <li>◆ The TV is using its power management system.</li> <li>◆ Move the computer's mouse or press any key on the keyboard.</li> <li>◆ On your equipment check (STB, DVD, etc) ; Power, Signal Cable.</li> <li>◆ The TV is using its power management system.</li> <li>◆ Press the <b>SOURCE</b> (📺) button on the panel or remote control.</li> <li>◆ Turn the TV off and on.</li> </ul>

## Technical Specifications

*The descriptions and characteristics in this booklet are given for information purposes only and are subject to modification without notice.*

Model name	SP46L6HV	SP50L6HV	SP56K3HV	SP61L6HV	SP67L6HV
Colour systems	AUTO, PAL, SECAM, NTSC4.43				
TV standards	BG, DK, I, L				
Audio output power	15 W + 15 W		10 W + 10 W	15 W + 15 W	
Dimensions (W x D x H)	1088 x 342.5 x 814.2 mm	1182 x 354 x 869.7 mm	1292x 415 x 906 mm	1446 x 466.5 x 1056.2 mm	1584 x 502.5 x 1144.5 mm
Weights	28.8 kg	31.5 kg	33.3 kg	41.4 kg	47.5 kg

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left blank.***



## **Correct Disposal of This Product**

**(Waste Electrical & Electronic Equipment)**

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**(Applicable in the European Union and other European countries with separate collection systems)**

This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.



### Contact SAMSUNG WORLD-WIDE

If you have any questions or comments relating to Samsung products, please contact the SAMSUNG customer care centre.

Country	Customer Care Centre ☎	Web Site
BELGIUM	02 201 2418	<a href="http://www.samsung.com/be">www.samsung.com/be</a>
CZECH REPUBLIC	844 000 844	<a href="http://www.samsung.com/cz">www.samsung.com/cz</a>
DENMARK	38 322 887	<a href="http://www.samsung.com/dk">www.samsung.com/dk</a>
FINLAND	09 693 79 554	<a href="http://www.samsung.com/fi">www.samsung.com/fi</a>
FRANCE	08 25 08 65 65 (€ 0,15/Min)	<a href="http://www.samsung.com/fr">www.samsung.com/fr</a>
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